

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 613	07-00092-01-BR	SANGAMON	24	1

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

# PLANS FOR PROPOSED FEDERAL-AID HIGHWAY BRIDGE PROGRAM

**FAS ROUTE 613 (CH 8)  
SECTION 07-00092-01-BR  
PROJECT NO BRS-613(115)  
SANGAMON COUNTY  
OVER SPRING CREEK  
JOB NUMBER C-96-218-08**

**INDEX OF SHEETS**

1. COVER SHEET
2. SUMMARY OF QUANTITIES & GENERAL NOTES
- 3-5. TYPICAL CROSS SECTIONS
6. ALIGNMENT
7. SCHEDULE OF QUANTITIES
8. TRAFFIC CONTROL PLAN
9. PLAN & PROFILE
10. BRIDGE APPROACH PAVEMENT (SPECIAL)
11. GUARDRAIL & SHOULDER PLAN
- 12.-19. BRIDGE PLANS
- 20.-23. CH 8 CROSS SECTIONS
24. TR 18 CROSS SECTIONS

**LIST OF ILLINOIS DOT HIGHWAY STANDARDS**

280001-04	631032-03
420001-07	635006-02
420401-06	635011-01
420701-02	701901
515001-02	BLR21-7
630001-07	
630301-04	

**UTILITY CONTACTS:**

**UTILITY TYPE:**

**ELECTRIC**  
AMEREN CILCO  
(217) 753-5187  
ATTN: RICK COMBS

**UTILITY TYPE:**

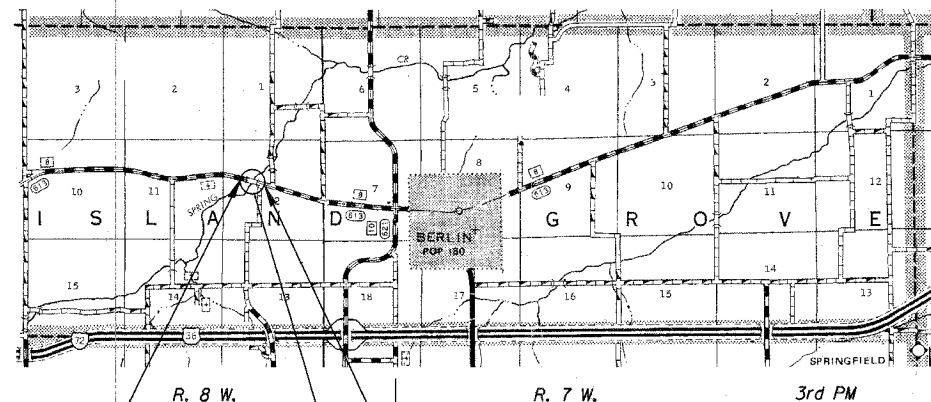
**TELEPHONE**  
MCLEOD USA  
(217) 876-7194  
ATTN: MARK MILLS

**UTILITY TYPE:**

**TELEPHONE**  
VERIZON NORTH, INC  
(309) 663-3422  
ATTN: JONNA FRICKE

**CONTRACT NO. 93458**

CUMMINS ENGINEERING CORPORATION SPRINGFIELD, ILLINOIS



BEGIN SECTION  
STA. 125+50

END SECTION  
STA. 131+50

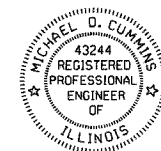
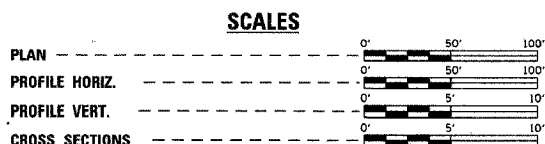
SECTION 07-00092-01-BR INCLUDES  
REPLACEMENT OF AN EXISTING PPC  
DECK BEAM BRIDGE ON PILE BENT  
ABUTMENTS THREE SPAN PPC DECK  
BEAM BRIDGE, 132'-9 1/4" BK. TO BK.  
ABUTMENTS, 36'-0" O. TO O. DECK,  
10° SKEW LEFT FORWARD  
EXISTING SN 084-3000 PROPOSED SN 084-3400

**LAYOUT**

Net Length of Section = 600.00 Feet = 0.114 Miles



MAJOR COLLECTOR  
DESIGN SPEED 50 MPH  
ADT 1300 (2008)



*Michael D. Cummins* (2/29/08)  
ILLINOIS PROFESSIONAL NO. 43244  
(Expires 11/30/09)



LOCATION OF SECTION INDICATED THIS: - [Black Rectangle] -  
TOLL FREE JOINT UTILITY LOCATING  
INFORMATION FOR EXCAVATORS (J.U.L.I.E.)  
TELEPHONE NUMBER 1-800-892-0123

APPROVED: MARCH 3 2008  
*[Signature]*  
COUNTY ENGINEER

PASSED: APRIL 1 2008  
*[Signature]*  
DISTRICT SIX ENGINEER OF LOCAL ROADS AND STREETS

PASSED: April 1 2008  
*[Signature]*  
DISTRICT ENGINEER OF CONSTRUCTION

RELEASED FOR  
BID BASED ON  
LIMITED REVIEW: APRIL 1 2008  
*Christine M Reed*  
DEPUTY DIRECTOR OF HIGHWAYS,  
REGION FOUR ENGINEER

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
FAS 613	07-00092-01-BR	SANGAMON	24	2

**SUMMARY OF QUANTITIES**

ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD 90
20300100	CHANNEL EXCAVATION	CU YD 465
20400800	FURNISHED EXCAVATION	CU YD 720
25001000	* SEEDING, CLASS 2 (SPECIAL)	ACRE 0.7
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND 70
28000400	PERIMETER EROSION BARRIER	FOOT 1,319
28101700	* RIPRAP, SPECIAL	TON 280
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD 329
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON 183
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON 118
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON 206
42001400	* BRIDGE APPROACH PAVEMENT (SPECIAL)	SQ YD 108
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD 30
44000100	PAVEMENT REMOVAL	SQ YD 172
44000198	* HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD 991
44004250	PAVED SHOULDER REMOVAL	SQ YD 250
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD 565
48203100	HOT-MIX ASPHALT SHOULDERS	TON 12
50100200	* REMOVAL OF EXISTING STRUCTURES	L SUM 1
50200100	STRUCTURE EXCAVATION	CU YD 164
50300225	CONCRETE STRUCTURES	CU YD 93.8
50300280	CONCRETE ENCASEMENT	CU YD 13.4
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT 4,716
50800105	REINFORCEMENT BARS	POUND 7,360
50901050	STEEL RAILING, TYPE SM	FOOT 263
51201400	FURNISHING STEEL PILES HP10X42	FOOT 804
51202305	DRIVING PILES	FOOT 804
51203400	TEST PILE STEEL HP10X42	EACH 4
51500100	NAME PLATES	EACH 1
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD 542
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT 361
63000000	Δ STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT 100
63000130	Δ * STEEL PLATE BEAM GUARD RAIL, TYPE A (SPECIAL)	FOOT 13
63100087	Δ TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH 3
63100167	Δ TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH 6
63200310	GUARDRAIL REMOVAL	FOOT 515
67100100	MOBILIZATION	L SUM 1
70101700	* TRAFFIC CONTROL AND PROTECTION	L SUM 1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT 108
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT 1,786
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT 36
78200405	Δ * GUARDRAIL MARKERS	EACH 9
78201000	Δ * TERMINAL MARKER - DIRECT APPLIED	EACH 6
X5020501	* UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH 1
X5020502	* UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH 1
XX005496	Δ * TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL)	EACH 1
	* SEE SPECIAL PROVISIONS	
	Δ SPECIALTY ITEMS	

CONSTRUCTION TYPE CODE: X080-2A

**GENERAL NOTES**

- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE ANY SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AS DIRECTED BY THE ENGINEER.  
  
SEEDING CLASS 2 (SPECIAL) = 0.7 ACRES
- ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, ELECTRIC POWER LINES, TELEPHONE LINES, AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES, MUNICIPALITIES AND FIELD INSPECTION. SEE STANDARD SPECIFICATIONS.
- PAVEMENT MARKING/STRIPING SHALL BE DONE BY OTHERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT

MIXTURE USES	HOT-MIX ASPHALT SURFACE COURSE MIX "C" N50	LEVEL BINDER (MACHINE METHOD) N50	HMA BASE COURSE
AC/PG:	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0 @ NDESIGN = 50	4.0 @ NDESIGN = 50	4.0 @ NDESIGN = 50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5 OR 12.5	IL 9.5, 12.5	IL 19.0
FRICTION AGGREGATE	MIX "C"	N/A	N/A

**APPLICATION RATES USED IN QUANTITY CALCULATIONS**

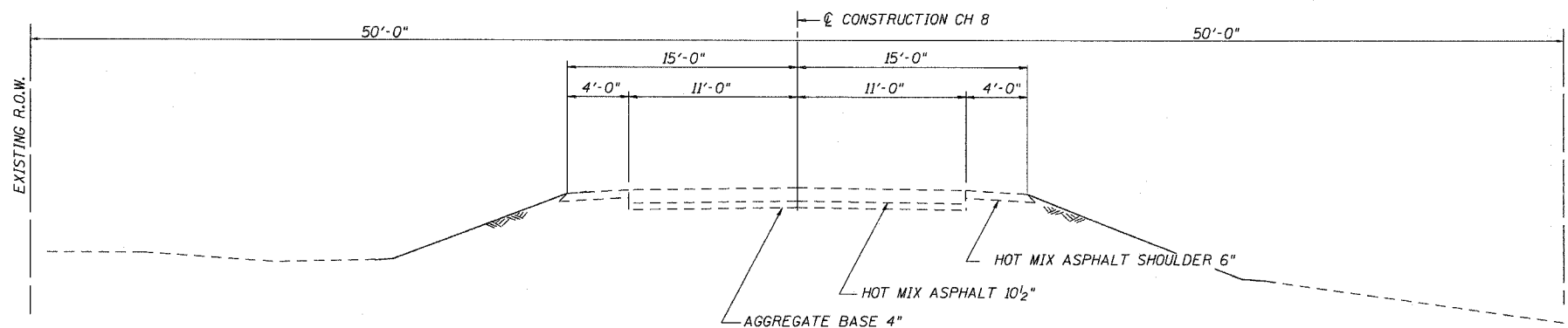
Granular Materials	2.05 Tons/Cu. Yd.
Riprap	1.5 Tons/Cu. Yd.
Bituminous Materials (Prime Coat)	0.1 Gallon/Sq.Yd.
Hot-Mix Asphalt	112#/Sq.Yd./Inch

**SUMMARY OF QUANTITIES  
GENERAL NOTES**

FAS 613 (CH 8)  
SECTION 07-00092-01-BR  
SANGAMON COUNTY

CUMMINS ENGINEERING CORPORATION	JOB #: 2187
	FILE: 2187gennotes
	DATE: 2/06/08

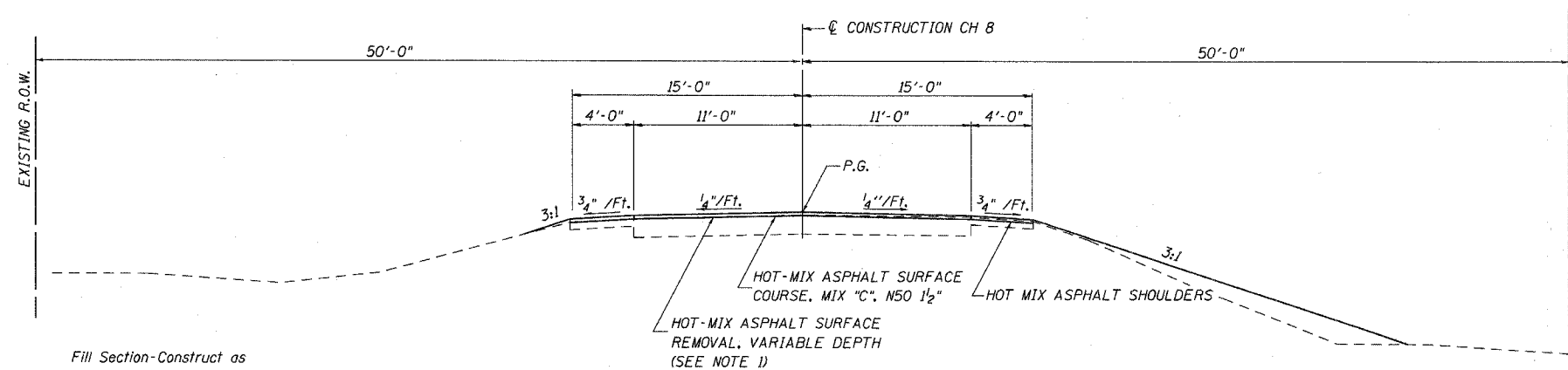
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 613	07-00092 01-BR	SANGAMON	24	3



**TYPICAL EXISTING ROADWAY CROSS SECTION CH 8**

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

STA	THICKNESS (FEET)		
	12' LT	CL	12' RT
125+50	0.12	0.12	0.12
126+00	0.15	0.00	0.08
126+50	0.12	0.00	0.08
127+00	0.07	0.00	0.06
129+75	0.00	0.00	0.00
130+00	0.06	0.00	0.08
130+25	0.15	0.00	0.11
130+50	0.21	0.02	0.14
131+00	0.20	0.01	0.10
131+50	0.12	0.12	0.12



**TYPICAL PROPOSED ROADWAY CROSS SECTION CH 8**

LT STA 125+50.00 TO STA 127+00.95  
 LT STA 130+91.50 TO STA 131+50.00  
 RT STA 125+50.00 TO STA 126+44.58

Fill Section-Construct as Shown on Station Cross Sections

NOTE 1: LIMITS OF HOT-MIX ASPHALT SURFACE REMOVAL  
 STA 125+50 TO STA 127+00  
 STA 129+75 TO STA 131+50

**PAVEMENT DESIGN**

STRUCTURAL DESIGN TRAFFIC YEAR: 2017  
 PV= 1179 SU= 94 MU= 67  
 CLASS III ROAD  
 IBV=3.0 (ASSUMED) TRAFFIC FACTOR= 0.36  
 PERCENT OF SDT FOR TWO LANES  
 PV=88% SU=7% MU=5%  
 STRUCTURAL NUMBER  $D_r = 3.55$   
 PAVEMENT COMPOSITION  
 EXISTING:  
 3" HOT-MIX ASPHALT -  $A_2 = 0.23$   
 4" RECYCLED HOT-MIX ASPHALT -  $A_3 = 0.25$   
 3 1/2" HOT-MIX ASPHALT -  $A_4 = 0.23$   
 4" AGGREGATE BASE -  $A_5 = 0.10$   
 PROPOSED  
 1/2" HMA SURF CSE, MIX "C", N50 -  $A_1 = 0.36$

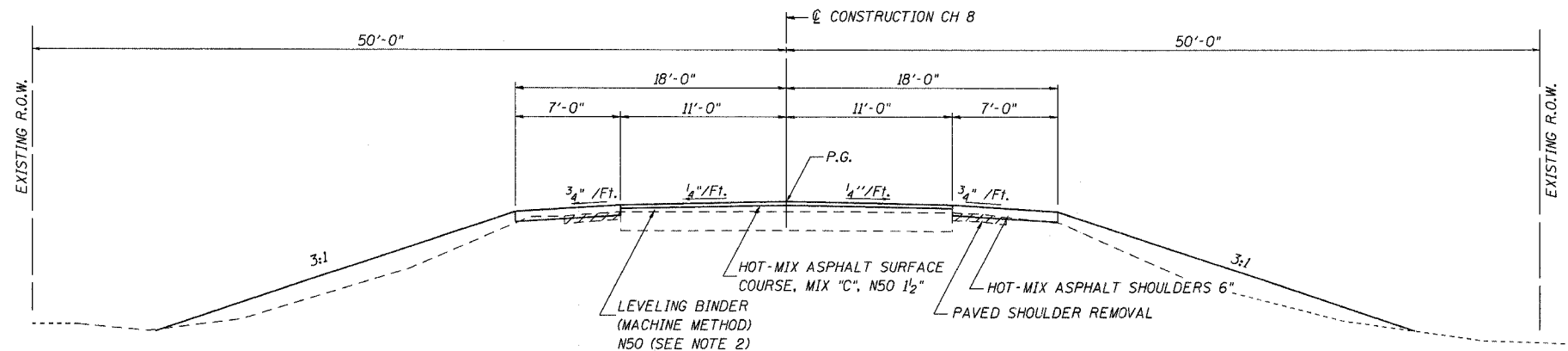
**TYPICAL CROSS SECTIONS**

FAS 613 (CH 8)  
 SECTION 07-00092-01-BR  
 SANGAMON COUNTY

CUMMINS ENGINEERING CORPORATION

JOB #: 2187  
 FILE: 2187TYP  
 DATE: 11/30/07

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 613	07-00092 01-BR	SANGAMON	24	4



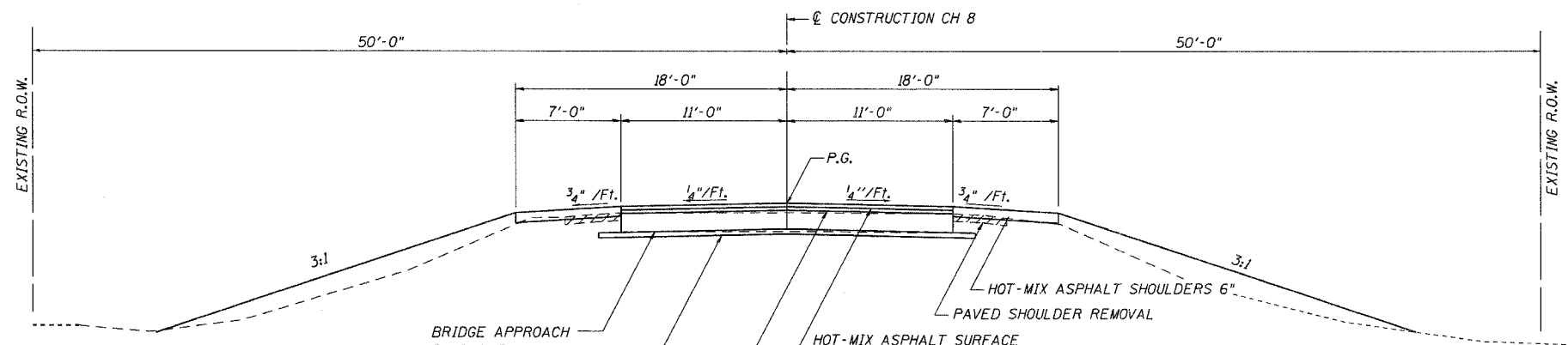
Fill Section-Construct as Shown on Station Cross Sections

**TYPICAL PROPOSED ROADWAY CROSS SECTION CH 8**

LT STA 127+00.95 TO STA 127+80.48  
 LT STA 129+55.52 TO STA 130+91.50  
 RT STA 126+44.58 TO STA 127+80.48  
 RT STA 129+55.52 TO STA 131+50

**LEVELING BINDER (MACHINE METHOD) N50**

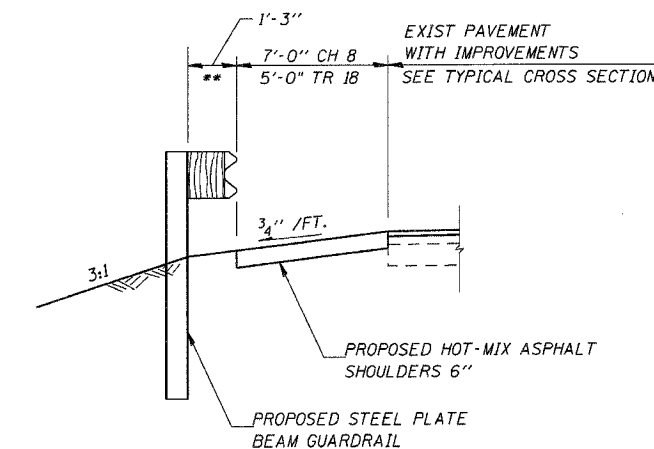
STA	THICKNESS (FEET)		
	12' LT	CL	12' RT
126+50	0.00	0.03	0.00
127+00	0.00	0.08	0.00
127+25	0.09	0.28	0.15
127+50	0.19	0.35	0.27
127+80.48	0.33	0.53	0.38
127+80.48	0.17	0.17	0.17
128+02.42	0.17	0.17	0.17
129+33.58	0.17	0.17	0.17
129+55.52	0.17	0.17	0.17
129+55.52	0.27	0.35	0.29
129+75	0.15	0.23	0.06
130+00	0.00	0.10	0.00
130+25	0.00	0.02	0.00



Fill Section-Construct as Shown on Station Cross Sections

**TYPICAL PROPOSED ROADWAY CROSS SECTION CH 8**

STA 127+80.48 TO STA 128+02.42  
 STA 129+33.58 TO STA 129+55.52



**SHOULDER DETAIL AT GUARDRAIL**

\*\* SEE STANDARD 630301 FOR EARTH SHOULDER WIDENING AT TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT) SEE SHEET 11 FOR LAYOUT OF EARTH SHOULDER.

NOTE 2: LIMITS OF LEVELING BINDER  
 STA 126+50 TO STA 128+02.42  
 STA 129+55.52 TO STA 130+25

**OMISSIONS**

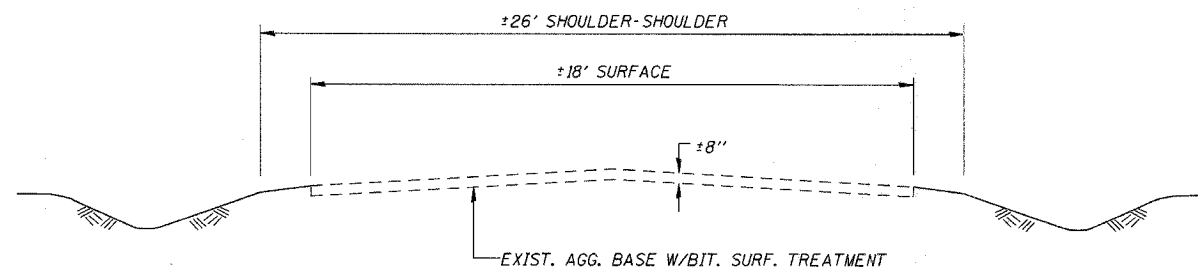
BRIDGE  
 STA 128+02.42 TO STA 129+33.58

**TYPICAL CROSS SECTIONS**

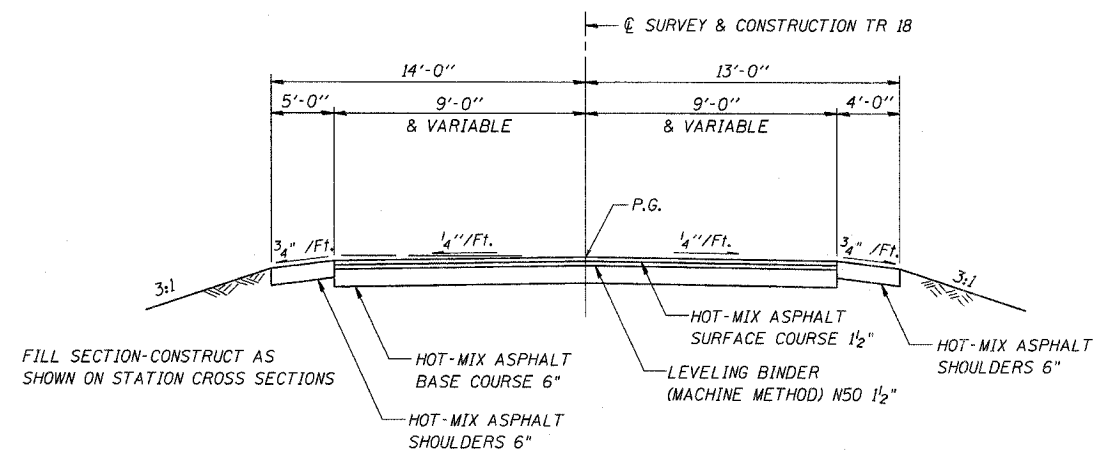
FAS 613 (CH 8)  
 SECTION 07-00092-01-BR  
 SANGAMON COUNTY

CUMMINS ENGINEERING CORPORATION  
 JOB #: 2187  
 FILE: 2187TYP  
 DATE: 11/30/07

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 613	07-00092 01-BR	SANGAMON	24	5



**TYPICAL EXISTING ROADWAY CROSS SECTION TR 18**



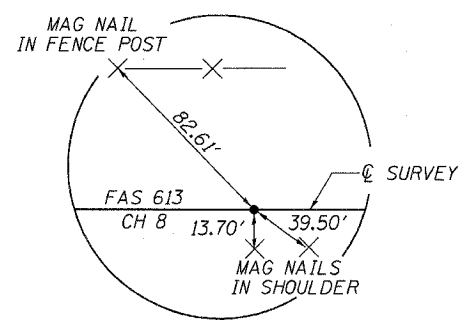
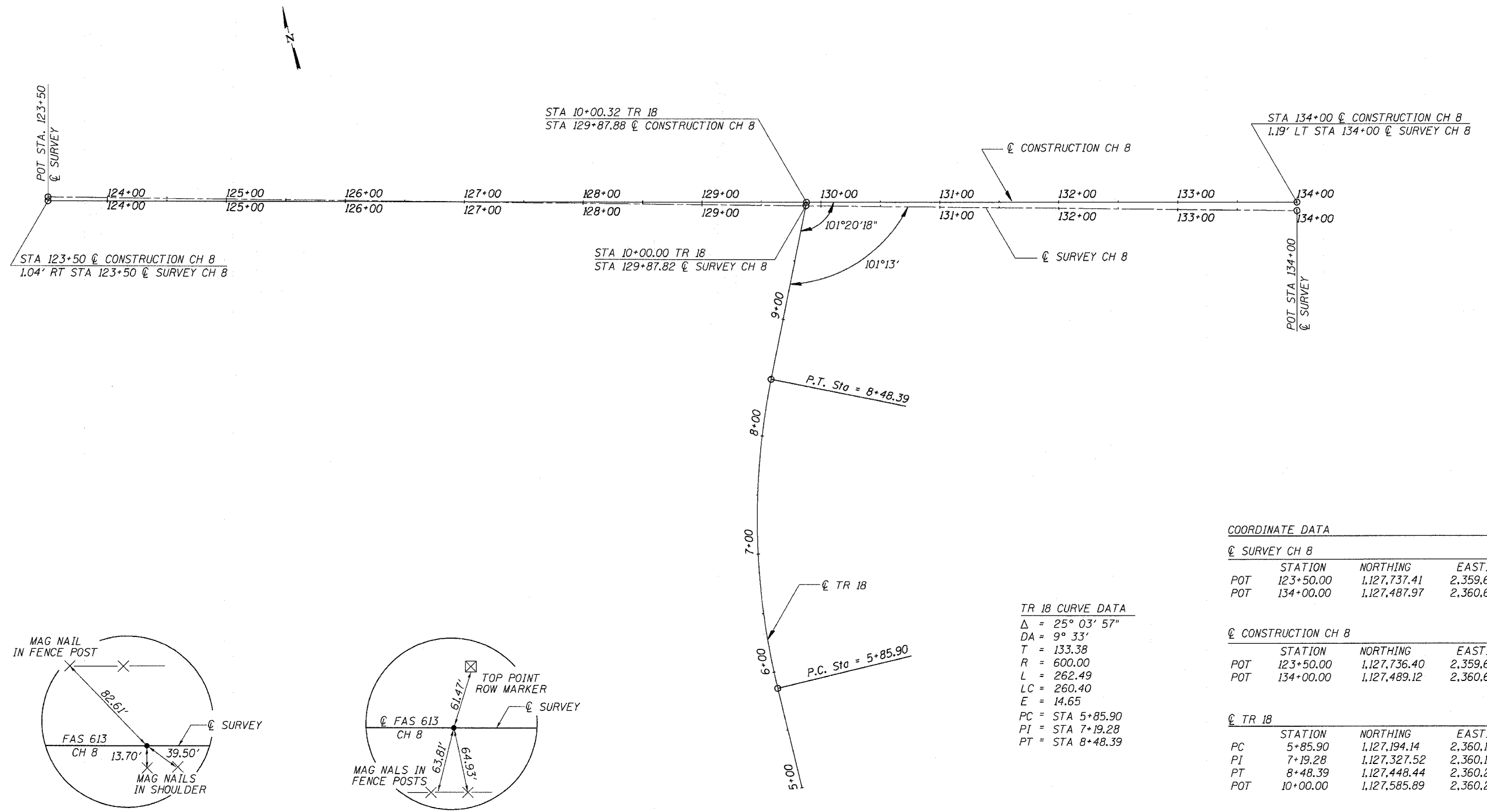
**TYPICAL PROPOSED ROADWAY CROSS SECTION TR 18**

STA 8+70 TO STA 9+89  
 TRANSITION FROM EXISTING ROADWAY AT STA 8+70  
 TO PROPOSED ROADWAY AT STA 9+45

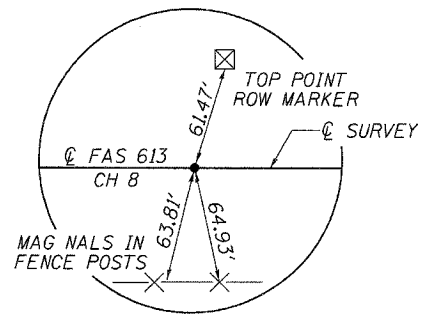
**TYPICAL CROSS SECTIONS**

FAS 613 (CH 8)  
 SECTION 07-00092-01-BR  
 SANGAMON COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
CH 8	07-00092-01-BR	SANGAMON	24	6



POT STA 123+50  
MAG NAIL - (SET)



POT STA 134+00  
MAG NAIL - (SET)

TR 18 CURVE DATA

$\Delta$	= 25° 03' 57"
DA	= 9° 33'
T	= 133.38
R	= 600.00
L	= 262.49
LC	= 260.40
E	= 14.65
PC	= STA 5+85.90
PI	= STA 7+19.28
PT	= STA 8+48.39

COORDINATE DATA

☉ SURVEY CH 8

STATION	NORTHING	EASTING
POT 123+50.00	1,127,737.41	2,359,668.23
POT 134+00.00	1,127,487.97	2,360,688.17

☉ CONSTRUCTION CH 8

STATION	NORTHING	EASTING
POT 123+50.00	1,127,736.40	2,359,667.98
POT 134+00.00	1,127,489.12	2,360,688.45

☉ TR 18

STATION	NORTHING	EASTING
PC 5+85.90	1,127,194.14	2,360,167.77
PI 7+19.28	1,127,327.52	2,360,167.53
PT 8+48.39	1,127,448.44	2,360,223.81
POT 10+00.00	1,127,585.89	2,360,287.79

**ALIGNMENT**

FAS 613 (CH 8)  
SECTION 07-00092-01-BR  
SANGAMON COUNTY

CUMMINS ENGINEERING CORPORATION	JOB #:	2187
	FILE:	2187alln.dgn
	DATE:	2/29/08

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
FAS 613	07-00092-01-BR	SANGAMON	24	7

**EARTHWORK**

LOCATION	EARTH EXCAVATION CU YD	EXCAVATION ADJUSTED FOR SHRINKAGE CU YD	REQUIRED EMBANKMENT CU YD	EARTHWORK BALANCE CU YD
STA 125+50.00 TO STA 131+98.00	55	45	770	-725
STA 8+70.00 TO STA 9+72.00	35	30	25	5
TOTAL	90	75	795	-720

SHRINKAGE FACTOR = 25%

**SEEDING CLASS 2 SPECIAL**

LOCATION	ACRE
LT STA 125+50 TO STA 128+74	0.2
LT STA 128+94 TO STA 131+50	0.1
RT STA 125+50 TO STA 128+46	0.2
RT STA 128+72 TO STA 129+55	0.1
RT STA 129+70 TO STA 131+50	0.1
TOTAL	0.7

**TEMPORARY EROSION CONTROL SEEDING**

LOCATION	POUNDS
LT STA 125+50 TO STA 128+74	20
LT STA 128+94 TO STA 131+50	10
RT STA 125+50 TO STA 128+46	20
RT STA 128+72 TO STA 129+55	10
RT STA 129+70 TO STA 131+50	10
TOTAL	70

**PERIMETER EROSION BARRIER**

LOCATION	FOOT
23' LT STA 125+50 TO 48' LT STA 126+75	127
18' LT STA 126+75 TO 48' LT STA 128+50	178
18' LT STA 128+44 TO 48' LT STA 128+50	31
18' LT STA 128+98 TO 46' LT STA 129+05	29
46' LT STA 129+05 TO 44' LT STA 129+65	60
44' LT STA 129+65 TO 28' LT STA 131+50	186
38' RT STA 125+50 TO 49' LT STA 126+45	96
49' RT STA 126+45 TO 47' LT STA 128+30	185
47' RT STA 128+30 TO 18' LT STA 128+38	30
45' RT STA 128+85 TO 18' LT STA 128+92	28
45' RT STA 128+85 TO 45' LT STA 129+45	60
45' RT STA 129+45 TO 122' LT STA 129+35	78
132' RT STA 129+85 TO 48' LT STA 130+10	91
48' RT STA 130+10 TO 48' LT STA 131+50	140
TOTAL	1,319

**GUARDRAIL REMOVAL**

LOCATION	FOOT
LT STA 126+95.40 TO STA 128+09.10	114
LT STA 129+26.50 TO STA 130+89.40	163
RT STA 126+45.50 TO STA 128+09.10	163
RT STA 129+26.50 TO STA 129+58.10	75
TOTAL	515

**PAVED SHOULDER REMOVAL**

LOCATION	SQ YD
LT STA 127+00.95 TO STA 128+09.34	48
LT STA 129+26.56 TO STA 130+91.48	74
RT STA 126+44.58 TO STA 128+09.34	74
RT STA 130+29.34 TO STA 131+50.00	54
TOTAL	250

**PAVEMENT REMOVAL**

LOCATION	SQ YD
STA 127+74.48 TO STA 128+09.34	86
STA 129+26.56 TO STA 129+61.52	86
TOTAL	172

**BRIDGE APPROACH PAVEMENT SPECIAL**

LOCATION	WIDTH	SQ YD
STA 127+80.48 TO STA 128+02.42	22	54
STA 129+33.58 TO STA 129+55.52	22	54
TOTAL		108

**BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)**

LOCATION	WIDTH	SQ YD
STA 127+74.48 TO STA 127+80.48	22	15
TO STA 129+55.52 TO STA 129+61.52	22	15
TOTAL		30

**HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH**

LOCATION	SQ YD
STA 125+50.00 TO STA 127+25.00	428
STA 129+75.00 TO STA 131+50.00	428

**SHOULDER**

LT STA 125+50.00 TO STA 127+00.95	67
LT STA 130+91.48 TO STA 131+50.00	26
RT STA 125+50.00 TO STA 126+44.58	42
TOTAL	991

**HOT-MIX ASPHALT BASE COURSE 6"**

LOCATION	SQ YD
STA 8+70.00 TO STA 9+89.10	329
TOTAL	329

**BITUMINOUS MATERIALS (PRIME COAT)**

LOCATION	APPLICATION		
	WIDTH FOOT	RATE GALLON/SQ YD	GALLON
STA 125+50.00 TO STA 128+02.42	22	0.1	62
STA 128+02.42 TO STA 129+33.58	36	0.1	53
STA 129+33.58 TO STA 131+50.00	22	0.1	53

**SHOULDERS**

LT STA 125+50.00 TO STA 127+00.95	4	0.1	7
LT STA 130+91.48 TO STA 131+50.00	4	0.1	3
RT STA 125+50.00 TO STA 126+44.58	4	0.1	5
TOTAL			183

**LEVELING BINDER (MACHINE METHOD) N50**

LOCATION	TON
STA 125+50.00 TO STA 128+02.42	43
STA 129+33.58 TO STA 131+50.00	50
STA 8+70 TO STA 9+89	25
TOTAL	118

**HOT-MIX ASPHALT SURFACE COURSE MIX "C" N50**

LOCATION	TON
STA 125+50.00 TO STA 128+02.42	52
STA 128+02.42 TO STA 129+33.58	84
STA 129+33.58 TO STA 131+50.00	45
STA 8+70 TO STA 9+89	25
TOTAL	206

**HOT-MIX ASPHALT SHOULDERS 6"**

LOCATION	SQ YD
LT STA 127+00.95 TO STA 128+04.35	81
LT STA 129+35.52 TO STA 130+91.48	122
RT STA 126+44.58 TO STA 128+00.48	122
RT STA 129+31.64 TO STA 8+70.00	81
RT STA 130+26 TO STA 131+50.00	95
RT STA 8+70.00 TO STA 9+90.00	64
TOTAL	565

**HOT-MIX ASPHALT SHOULDERS**

LOCATION	TON
LT STA 125+50.00 TO STA 127+00.95	6
LT STA 130+91.48 TO STA 131+50.00	2
RT STA 125+50.00 TO STA 126+44.58	4
TOTAL	12

**TERMINAL MARKER - DIRECT APPLIED**

LOCATION	EACH
LT STA 127+11.84	1
LT STA 130+80.50	1
RT STA 126+55.50	1
RT STA 130+44.00	1
RT STA 131+44.00	1
LT STA 8+95.75	1
TOTAL	6

**GUARDRAIL MARKERS**

LOCATION	EACH
LT STA 127+61.84 TO STA 130+30.50	4
RT STA 127+05.50 TO STA 9+45.75	5
TOTAL	9

**SHORT TERM PAVEMENT MARKING**

LOCATION	FOOT
CENTERLINE STA 125+50.00 TO STA 131+50.00	64

**SHOULDER**

LT STA 127+02.00 TO STA 130+90.50	20
RT STA 126+45.50 TO STA 131+50.00	24
TOTAL	108

**WORK ZONE PAVEMENT MARKING REMOVAL**

LOCATION	SQ FT
CENTERLINE STA 125+50.00 TO STA 131+50.00	21

**SHOULDER**

LT STA 127+02.00 TO STA 130+90.50	7
RT STA 126+45.50 TO STA 131+50.00	8
TOTAL	36

**TEMPORARY PAVEMENT MARKING - LINE 4"**

LOCATION	FOOT
SOLID WHITE EDGE LINE	
LT STA 125+50.00 TO STA 131+50.00	600
RT STA 125+50.00 TO STA 129+40.00	390
RT STA 130+44.00 TO STA 131+50.00	106

**SOLID YELLOW CENTERLINE**

LT STA 125+50.00 TO STA 127+50.00	200
RT STA 128+50.00 TO STA 131+50.00	300

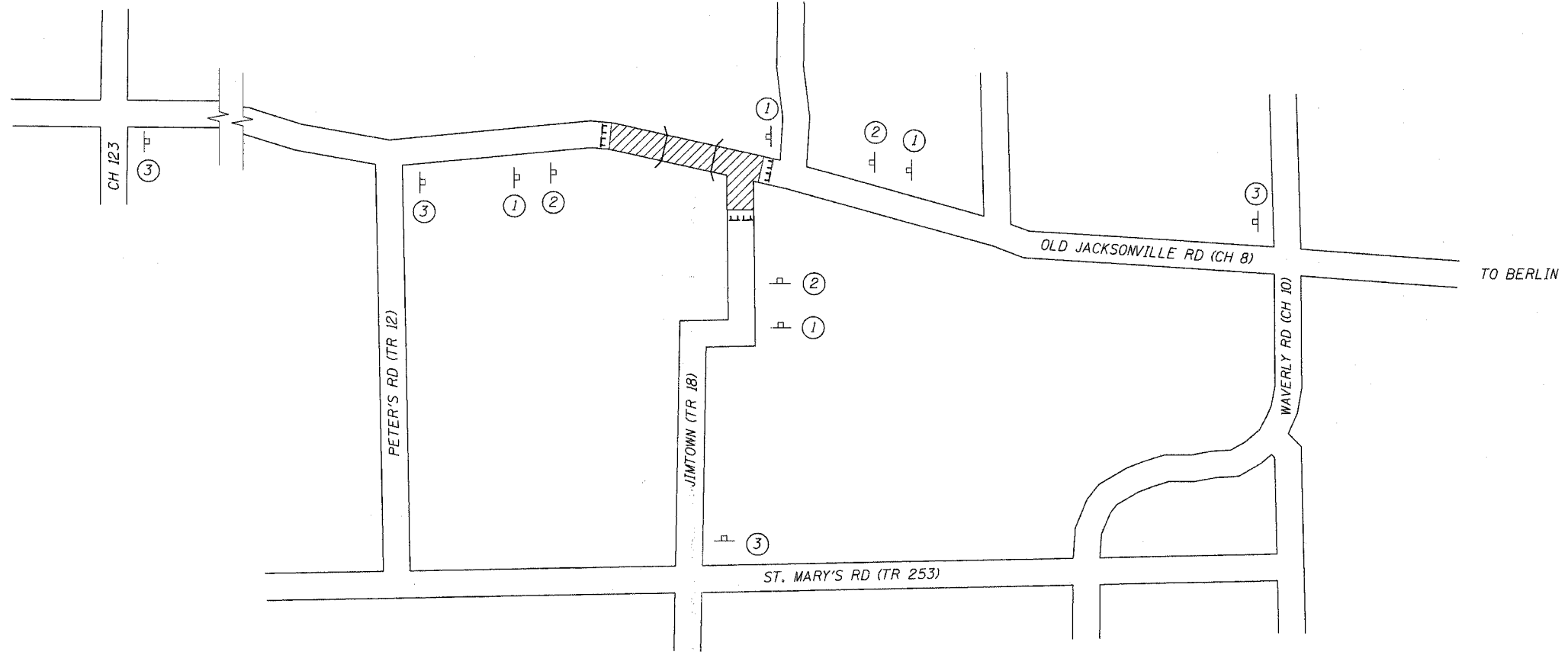
**YELLOW SKIP DASH**




LT STA 127+50.00 TO STA 131+50.00	110
RT STA 125+50.00 TO STA 128+50.00	80
TOTAL	176


**SCHEDULE OF QUANTITIES**


FAS 613 (CH 8)  
SECTION 07-00092-01-BR  
SANGAMON COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
CH 45	04-00120-01-BR	SANGAMON	24	8



- ①  ROAD CLOSED AHEAD
- ②  ROAD CLOSED 500 FT
- ③  ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY

 WORK AREA

 BARRICADE TYPE III WITH TWO FLASHING LIGHTS FOR EACH BARRICADE AND ONE "ROAD CLOSED" R11-2

**TRAFFIC CONTROL PLAN**  
 FAS 613 (CH 8)  
 SECTION 07-00092-01-BR  
 SANGAMON COUNTY

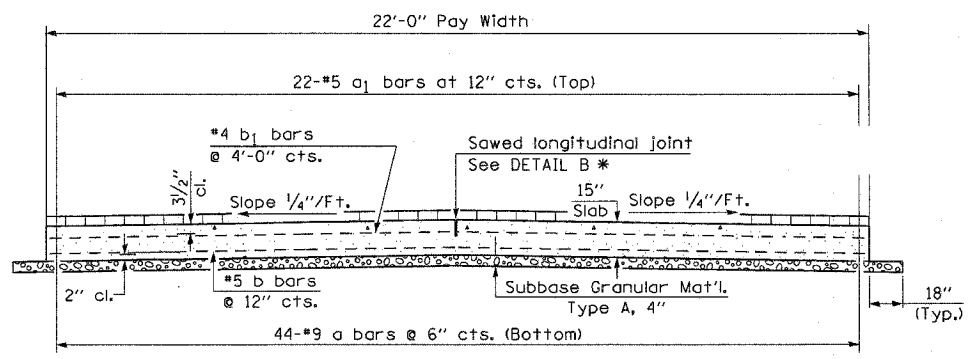
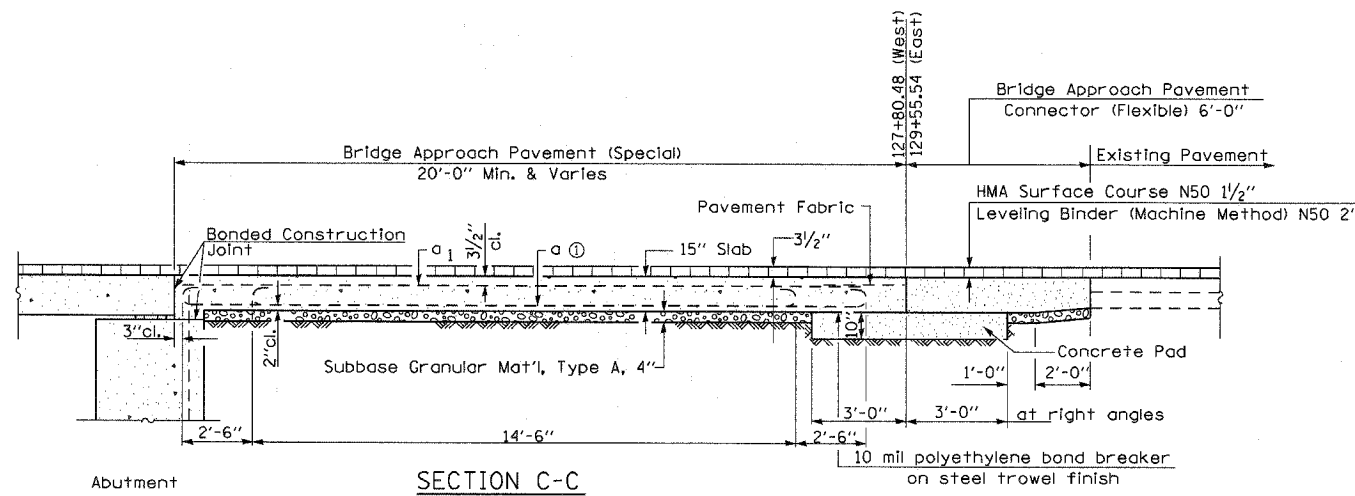
CUMMINS ENGINEERING CORPORATION

JOB #: 2187
FILE: 2187traffic
DATE: 2/6/08





ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
CH 8	07-00092-01-BR	SANGAMON	24	10



**GENERAL NOTES**

THICKNESS-"t"=Thickness of Pavement.

The cost of the bars, polyethylene bond breaker, granular subbase, reinforcement bars, the concrete pad (including reinforcement and excavation), and all other items necessary to complete this item of work shall be considered as included in the unit cost of BRIDGE APPROACH PAVEMENT (SPECIAL).

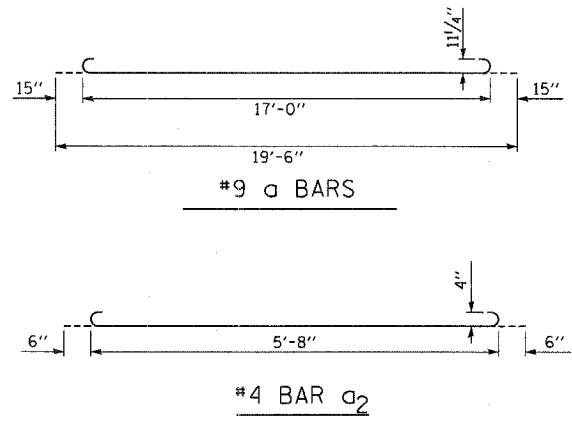
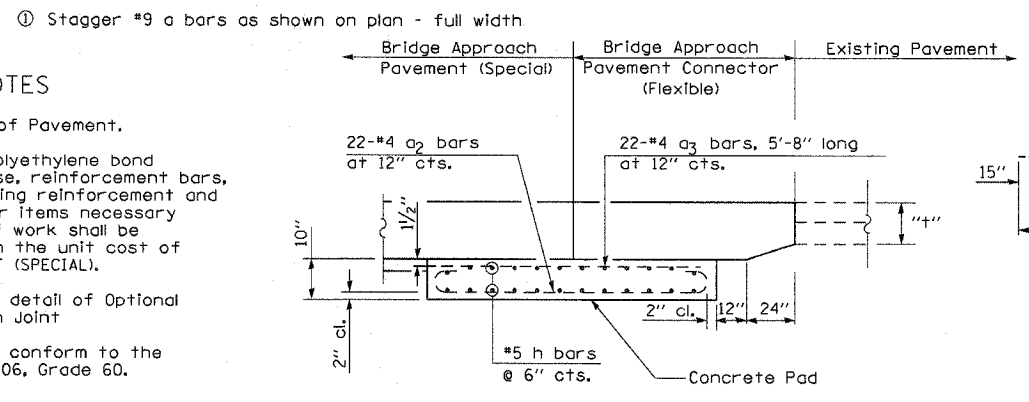
See Standard 420401 for detail of Optional Longitudinal Construction Joint

Reinforcement bars shall conform to the requirements of ASTM A706, Grade 60.

See Plan for Dimensions not shown

All reinforcement bars shall be epoxy coated.

See Standard 420001 for Joint details not shown

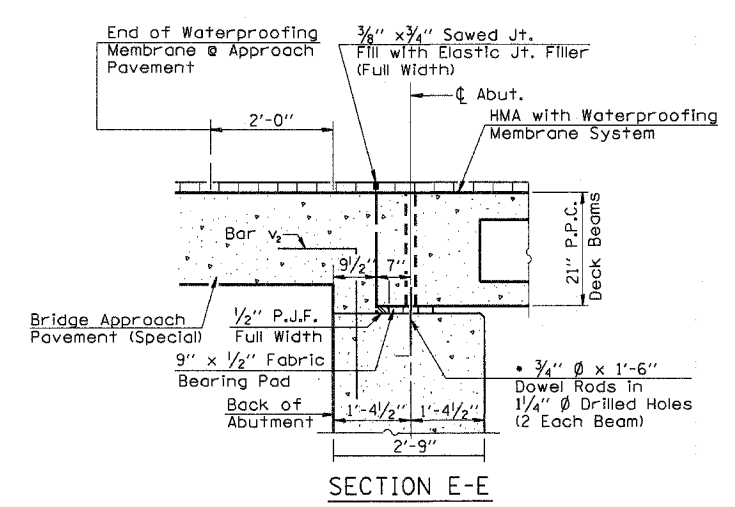
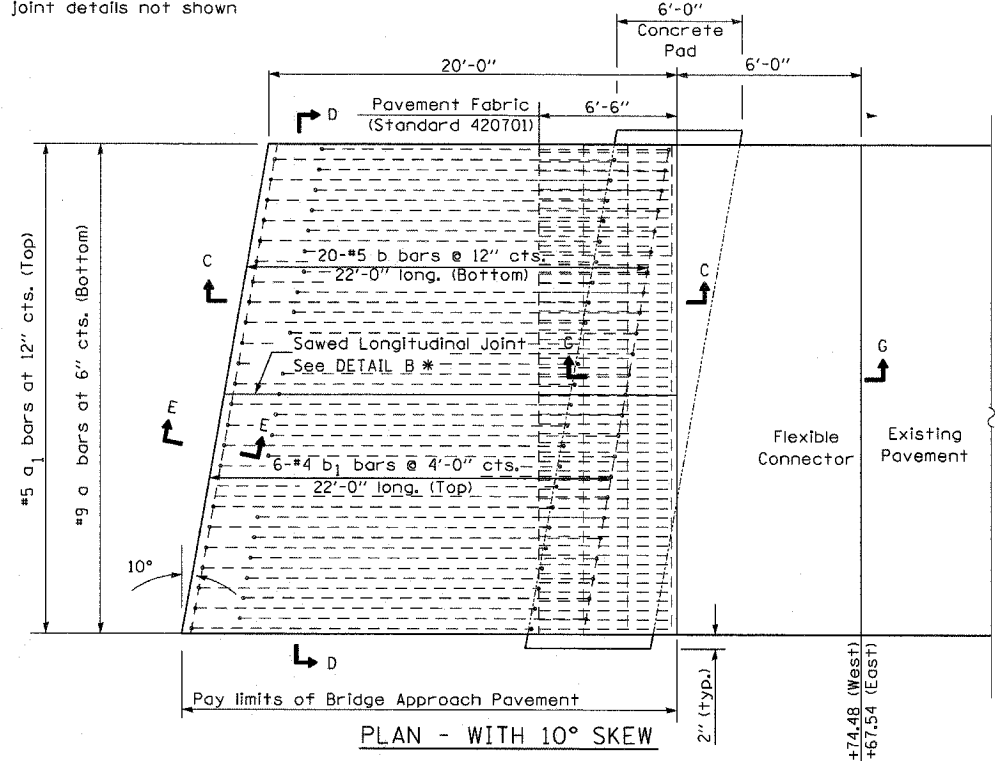


**BAR LIST - 1 APPROACH SLAB**  
FOR INFORMATION ONLY

Bar	No.	Size	Length	Shape
a	44	#9	19'-6"	U
a1	22	#5	19'-6"	—
b	20	#5	22'-0"	—
b1	5	#4	22'-0"	—
Pavement Fabric			Sq Yd	16
Reinforcement Bars, Epoxy Coated			Pound	3900

**BAR LIST - 1 CONCRETE PAD**  
FOR INFORMATION ONLY

Bar	No.	Size	Length	Shape
a2	22	#4	6'-8"	U
a3	22	#4	5'-8"	—
h	24	#5	22'-0"	—
Reinforcement Bars, Epoxy Coated			Pound	730



**DESIGN STRESSES**  
 fy = 60,000 p.s.i.  
 fc = 3,500 p.s.i.  
 n = 8.5

**BRIDGE APPROACH PAVEMENT (SPECIAL)**

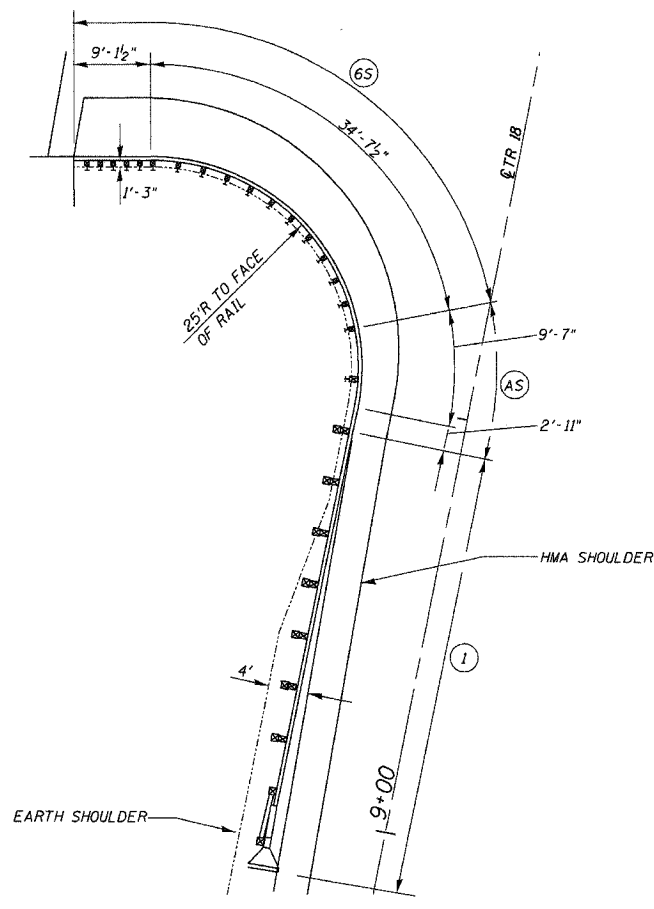
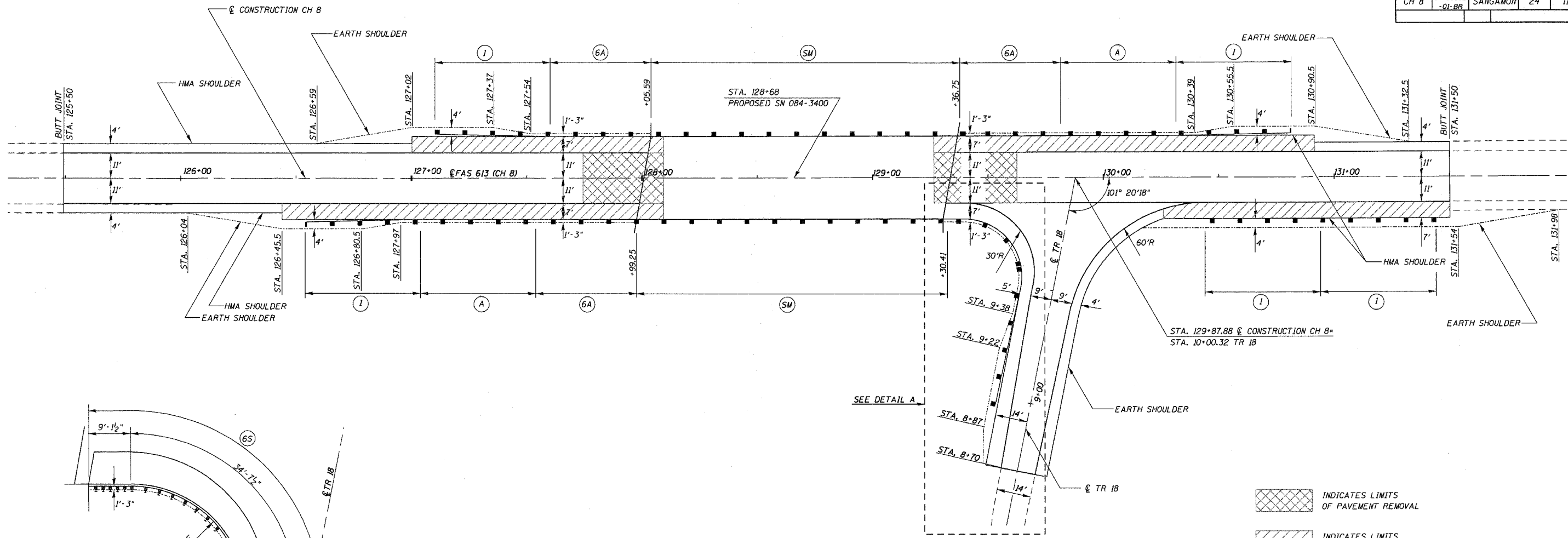
FAS 613 (CH 8)  
SECTION 07-00092-01-BR  
SANGAMON COUNTY

CUMMINS ENGINEERING CORPORATION

JOB #: 2187  
FILE: 218TAPPR  
DATE: 7/30/07

\* Saw  $\phi$  If poured two lane widths at a time.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
CH 8	07-00092-01-BR	SANGAMON	24	11



**GUARDRAIL AND SHOULDER PLAN**

TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	
LOCATION	EACH
LT STA 127+11.84 TO STA 127+61.84	1
LT STA 130+30.50 TO STA 130+80.50	1
RT STA 126+55.50 TO STA 127+05.50	1
RT STA 130+44 TO STA 130+94	1
RT STA 130+94 TO STA 131+44	1
LT STA 8+95.75 TO STA 9+45.75	1
<b>TOTAL</b>	<b>6</b>

STEEL PLATE BEAM GUARD RAIL, TYPE A	
LOCATION	FOOT
LT STA 130+80.50 TO STA 131+30.50	50
LT STA 127+05.50 TO STA 127+55.50	50
<b>TOTAL</b>	<b>100</b>

TRAFFIC BARRIER TERMINAL, TYPE 6A	
LOCATION	EACH
LT STA 127+61.84 TO STA 128+05.59	1
LT STA 130+36.75 TO STA 130+80.50	1
RT STA 127+55.50 TO STA 127+99.25	1
<b>TOTAL</b>	<b>3</b>

TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL)	
LOCATION	EACH
RT STA 129+30.41 TO STA 9+58.04	1
<b>TOTAL</b>	<b>1</b>

STEEL PLATE BEAM GUARD RAIL, TYPE A (SPECIAL)	
LOCATION	FOOT
RT STA 9+45.75 TO STA 9+58.04	12.5
<b>TOTAL</b>	<b>12.5</b>

- INDICATES LIMITS OF PAVEMENT REMOVAL
- INDICATES LIMITS OF PAVED SHOULDER REMOVAL

SEE STANDARD 630301 FOR DETAILS OF SHOULDER WIDENING AT TYPE 1 TERMINALS

TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL) SHALL CONFORM TO SECTION 631 OF THE STANDARD SPECIFICATIONS AND STANDARD 631032 EXCEPT THAT THE RAIL ELEMENTS SHALL BE FABRICATED TO THE RADIUS SHOWN IN DETAIL A. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL)

STEEL PLATE BEAM GUARD RAIL TYPE A (SPECIAL) SHALL CONFORM TO SECTION 630 OF THE STANDARD SPECIFICATIONS AND STANDARD 630001 EXCEPT THAT OF THE RAIL ELEMENTS SHALL BE FABRICATED TO THE RADIUS SHOWN IN DETAIL A. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR THE STEEL PLATE BEAM GUARD RAIL TYPE A (SPECIAL)

LEGEND	
(A)	STEEL PLATE BEAM GUARDRAIL TYPE A
(6A)	TRAFFIC BARRIER TERMINAL TYPE 6A
(6S)	TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL)
(AS)	STEEL PLATE BEAM GUARDRAIL TYPE A (SPECIAL)
(SM)	STEEL RAILING TYPE SM
(1)	TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (TANGENT)

**GUARDRAIL & SHOULDER DETAILS**

FAS 613 (CH 8)  
SECTION 07-00092-01-BR  
SANGAMON COUNTY

CUMMINS ENGINEERING CORPORATION

JOB #: 2187
FILE: 2187grali.dgn
DATE: 11/30/07

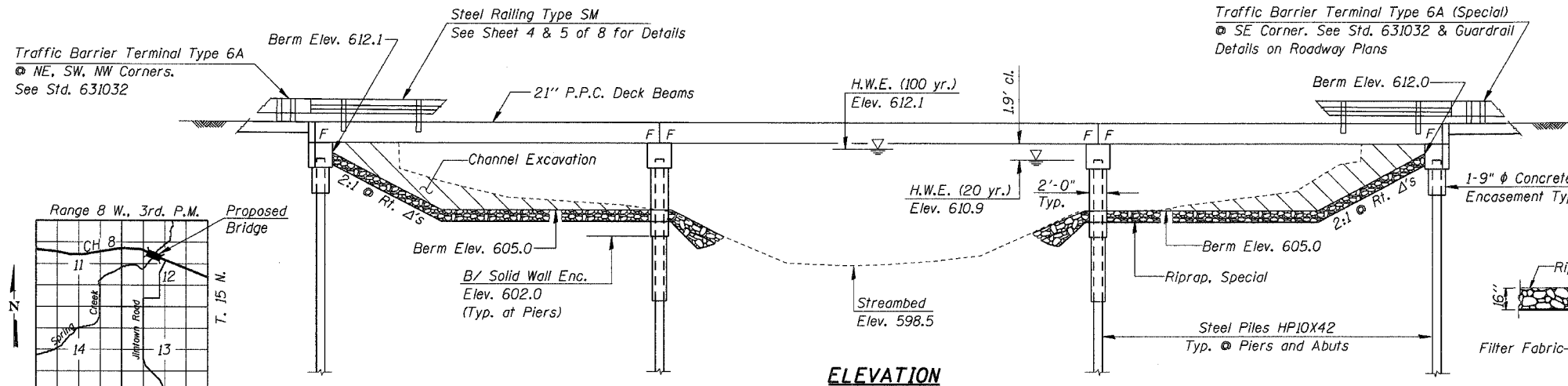
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 8	07-00092-01-BR	SANGAMON	24	12

Sheet 1 of 8

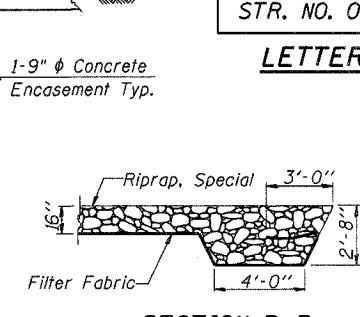
**SPRING CREEK  
BUILT 200\_ BY  
SANGAMON COUNTY  
SEC. 07-00092-01-BR  
COUNTY HIGHWAY 8  
F.A. PROJ. BRS-613 (115)  
STR. NO. 084-3400 LOADING HS20**

**LETTERING FOR NAME PLATE**

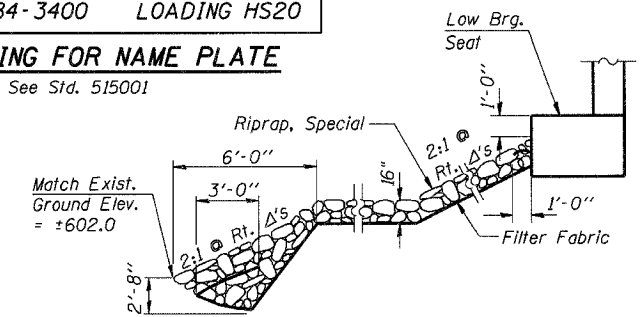
See Std. 515001



**ELEVATION**



**SECTION B-B  
FLANK STONE RIPRAP DETAIL**



**SECTION A-A  
STONE RIPRAP ANCHOR DETAIL**

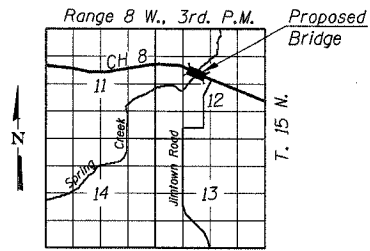
**GENERAL NOTES**

See Special Provisions for Boring data.  
Reinforcement bars shall conform to the requirements of AASHTO A 706 Grade 60. See Special Provisions.  
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.  
The Steel H-Piles shall be according to AASHTO M270 Grade 50. The contractor shall drive four steel test piles HP 10x42 in a permanent location, one at each abutment and at each pier as directed by the Engineer before ordering the remainder of piles. The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.  
The existing bridge rail shall be salvaged for the Sangamon County Highway Department. The contractor shall load the salvaged material on to a County trailer for removal from the site by the County.

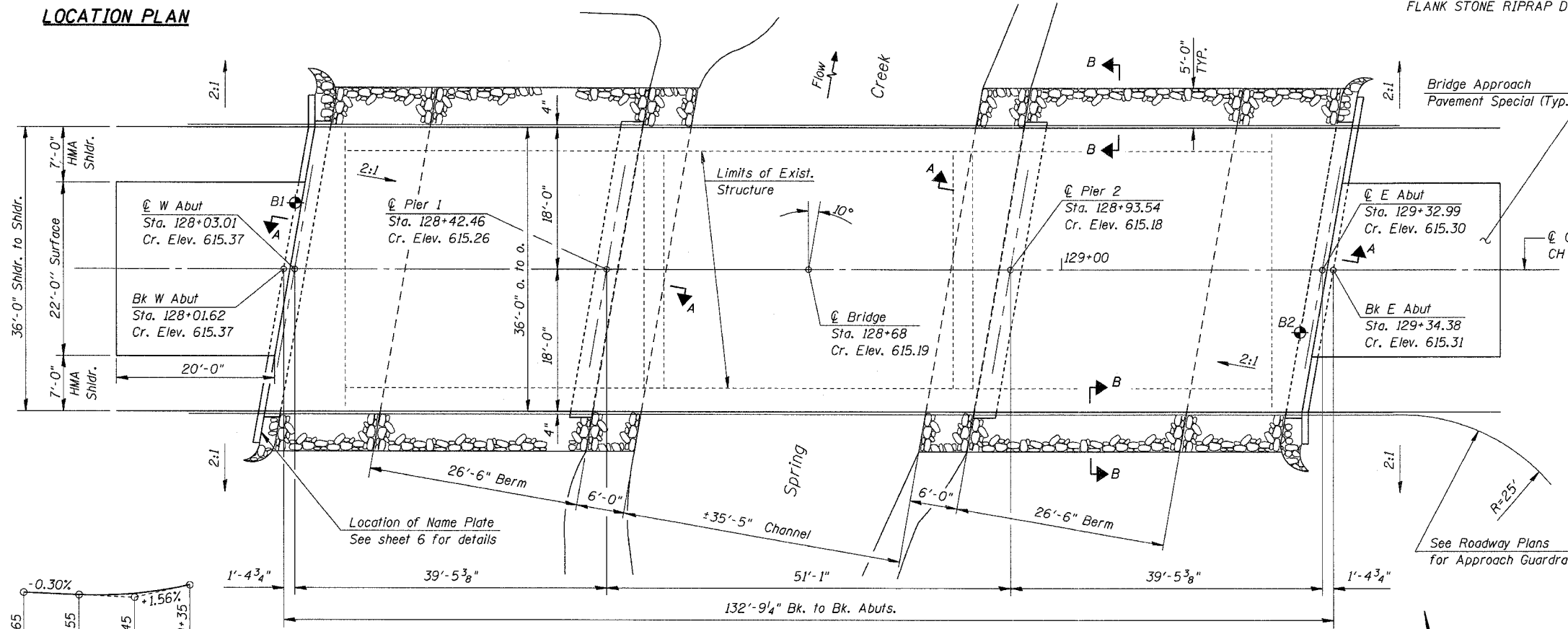
**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	4716		4716
Concrete Structures	Cu. Yd.		93.8	93.8
Reinforcement Bars	Pound		7360	7360
Steel Railing, Type SM	Foot	263		263
Name Plates	Each		1	1
Furnishing Steel Piles HPI0X42	Foot		804	804
Driving Piles	Foot		804	804
Test Pile Steel HPI0X42	Each		4	4
Riprap, Special	Ton		280	280
Structure Excavation	Cu. Yd.		164	164
Hot-Mix Asphalt Surface Course, Mix "C", N50	Ton	84		84
Portland Cement Mortar Fairing Course	Foot		361	361
Waterproofing Membrane System	Sq. Yd.		542	542
Underwater Structure Excavation Protection Location 1 (Pier 1)	Each		1	1
Underwater Structure Excavation Protection Location 2 (Pier 2)	Each		1	1
Concrete Encasement	Cu. Yd.		13.4	13.4

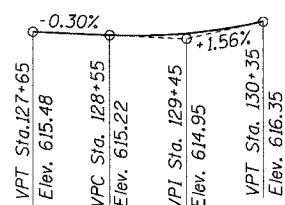
\* See Special Provisions



**LOCATION PLAN**



**PLAN**



**PROFILE GRADE**

DESIGNED	T.S.H.
CHECKED	A.A.N.
DRAWN	A.J.H.
CHECKED	M.D.C.

**CONSTRUCTION PERMITS**

Requirements of the IDNR/OWR have been fulfilled in accordance with the Statewide Permit No. 2

**WATERWAY INFORMATION**

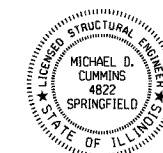
Drainage Area	21.0 Sq. Mi.
Existing Opening (20 Yr.)	770 Sq. Ft.
Proposed Opening (20 Yr.)	875 Sq. Ft.
Existing Opening (100 Yr.)	880 Sq. Ft.
Proposed Opening (100 Yr.)	996 Sq. Ft.
Design Discharge (20 Yr.)	2900 C.F.S.
Created Head (20 Yr.)	0.1 Ft.
100 Year Discharge	4300 C.F.S.
100 Yr. Created Head	0.2 Ft.

**DESIGN STRESSES**

$f_c = 5,000$  p.s.i. (Prestressed Beams)  
 $f_{ci} = 4,000$  p.s.i. (Prestressed Beams)  
 $f_c = 1,400$  p.s.i. (Class SI Concrete)  
 $f_s = 270,000$  p.s.i. (Prestressed Strands)  
 $f_{st} = 201,960$  p.s.i. (Prestressed Strands)  
 $f_s = 20,000$  p.s.i. (Reinf. Bars -- Field Units)  
 $f_y = 60,000$  p.s.i. (Reinf. Bars -- Field Units)  
 $n = 9$  (Class SI Concrete)  
 LOADING HS20-44  
 Design Specifications: 2002 AASHTO  
 Allow 50#/#Sq. Ft. for future wearing surface.

"I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current 'AASHTO Standard Specifications for Highway Bridges'."

*Michael D. Cummins* (e/eg/bs)  
 ILLINOIS STRUCTURAL NO. 4822 (Expires 11/30/08)



**GENERAL PLAN & ELEVATION**

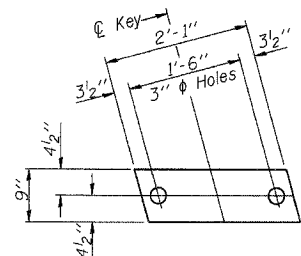
C.H. 8 OVER SPRING CREEK  
 SECTION 07-00092-01-BR  
 SANGAMON COUNTY  
 STA. 128+68

CUMMINS ENGINEERING CORPORATION

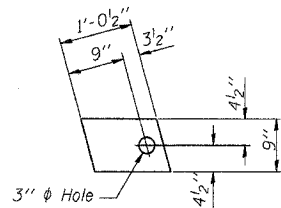
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 DATE: 2/7/08

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 8	07-00092-01-BR	SANGAMON	24	13

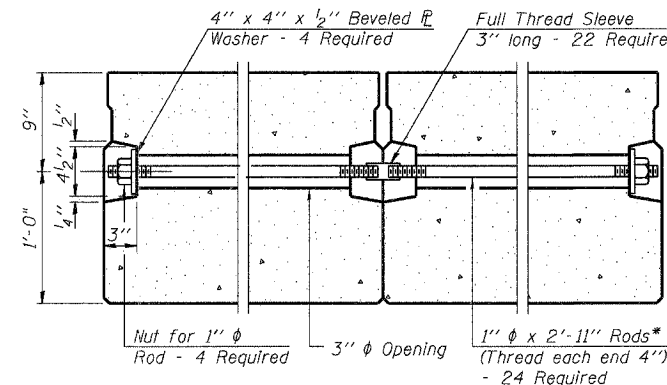
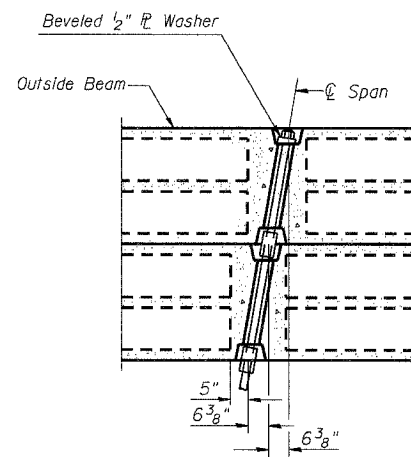
Sheet 2 of 8



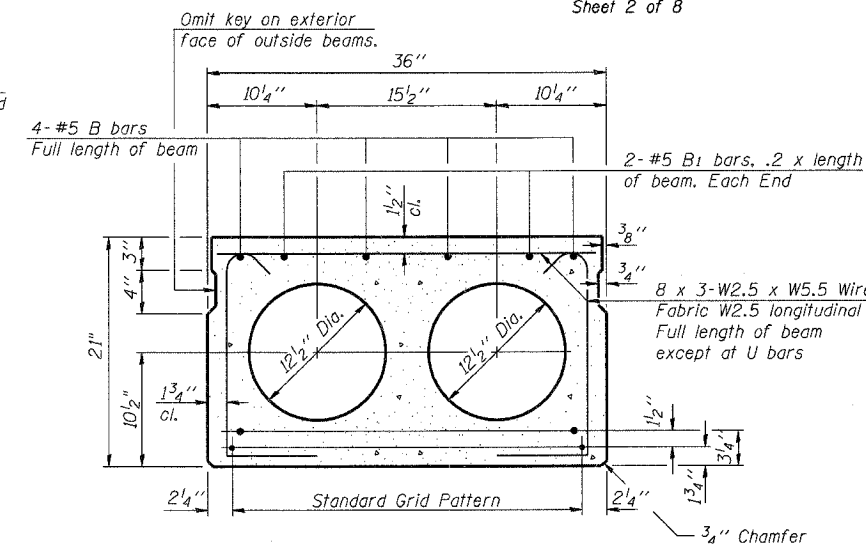
**FABRIC BEARING PAD**  
40 Required (Interior)



**FABRIC BEARING PAD**  
16 Required (Exterior)  
**FIXED**



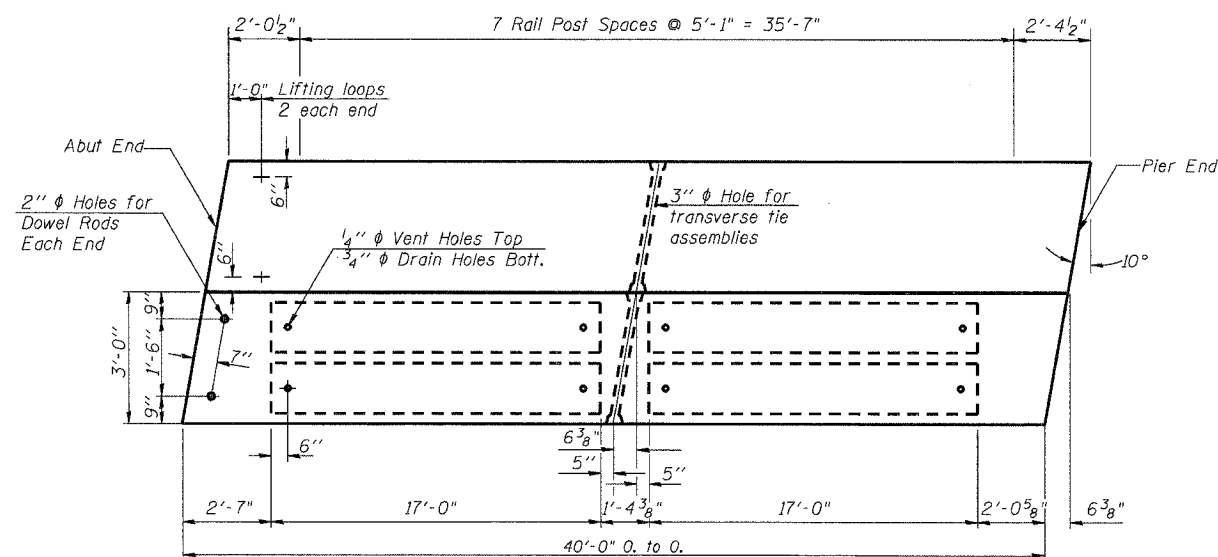
**TYPICAL TRANSVERSE TIE ASSEMBLY**



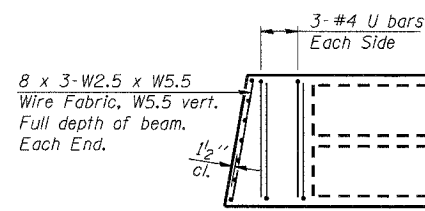
**TYPICAL SECTION**

10-1/2"  $\phi$  Strands, Each Strand Stressed to 30,900 Lbs.  
6-Strands 1 3/4" up, 4-Strands 3 1/4" up

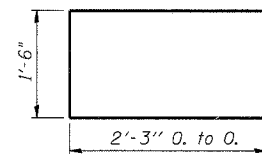
Note:  
Place strands symmetrically about  $\phi$  of beam.



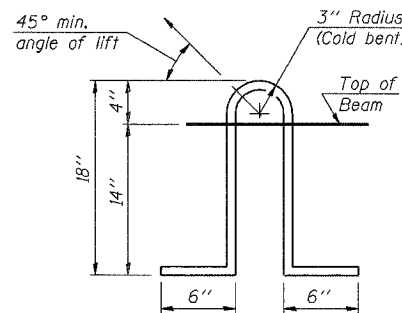
**PLAN**



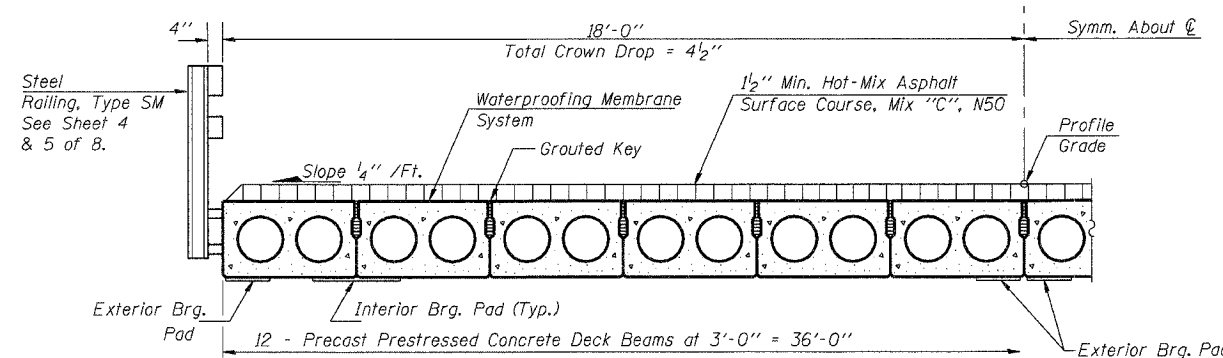
**END PLAN**



**BAR U**



**LIFTING LOOP DETAIL**



**HALF CROSS SECTION**

The top surface of the beams shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of 1/4".

**NOTES**

- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 2 - 1/2"  $\phi$  -270 ksi strands, as shown.
- The 1"  $\phi$  rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place. Alternate approved transverse tie rods of increased segmental length are acceptable.
- Non prestressing steel shall conform to ASTM A 706, Grade 60.
- The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.
- Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.
- Corrosion Inhibitor, per Article 1020.05(b)(12) of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- Required Release Strength, f'ci, shall be 4000 p.s.i.
- See Special Provisions for review and distribution of shop drawings.
- Rail post anchor devices, as specified elsewhere, shall be cast into exterior face of outside beams.

**BILL OF MATERIAL**

Item	Unit	Quantity
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	2880
Portland Cement Mortar Fairing Course	Foot	220

Estimated Weight per beam = 23,600 Pounds

**SUPERSTRUCTURE SPANS 1 & 3**

C.H. 8 OVER SPRING CREEK  
SECTION 07-00092-01-BR  
SANGAMON COUNTY  
STA. 128+68

DESIGNED	T.S.H.
CHECKED	A.A.N.
DRAWN	A.J.H.
CHECKED	M.D.C.

PD-3-L

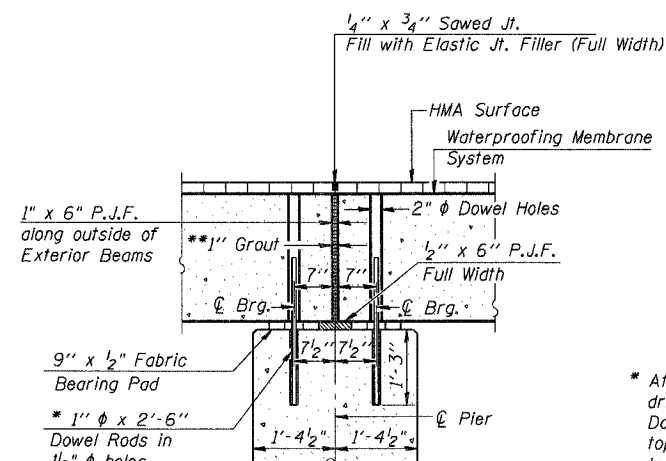
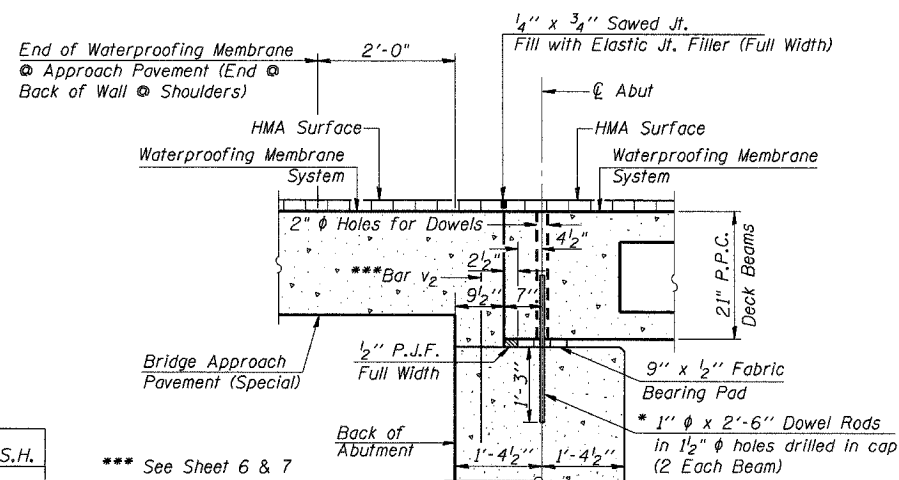
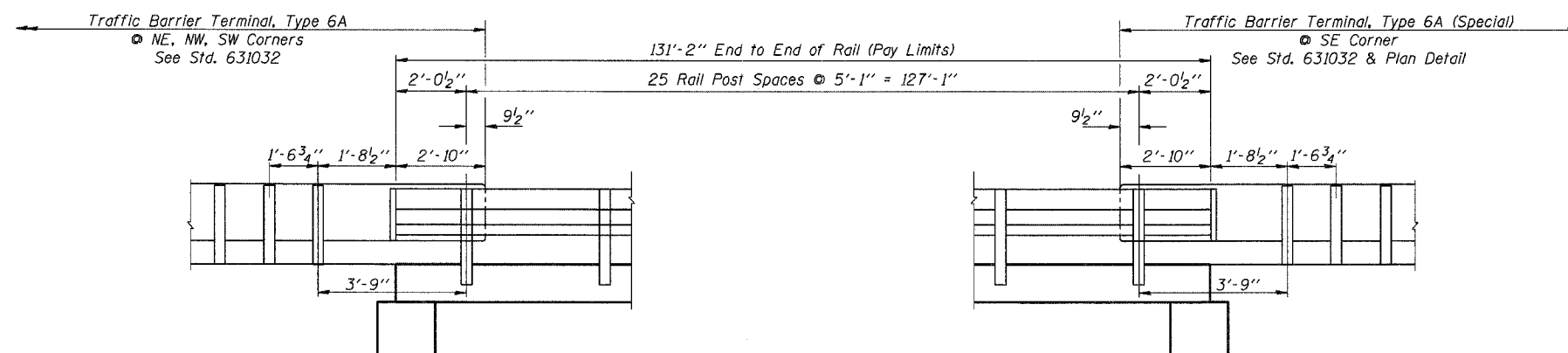
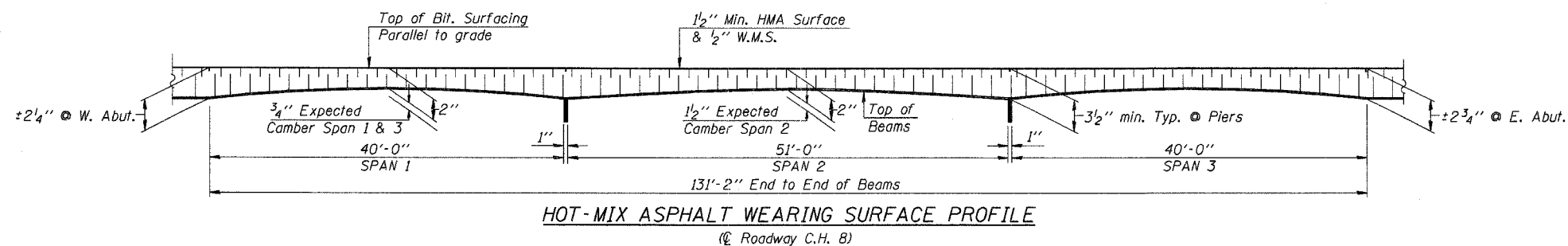
11-1-06

CUMMINS ENGINEERING CORPORATION  
JOB #: 2187  
FILE: 2187BEAM  
DATE: 2/7/08



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 8	07-00092-01-BR	SANGAMON	24	15

Sheet 4 of 8



\* After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.

\*\* 1" dimension may vary plus or minus to accommodate tolerance in beam lengths.

DESIGNED	T.S.H.
CHECKED	A.A.N.
DRAWN	A.J.H.
CHECKED	M.D.C.

\*\*\* See Sheet 6 & 7 of 8 for v<sub>2</sub> bar

**SUPERSTRUCTURE DETAILS**

C.H. 8 OVER SPRING CREEK  
SECTION 07-00092-01-BR  
SANGAMON COUNTY  
STA. 128+68

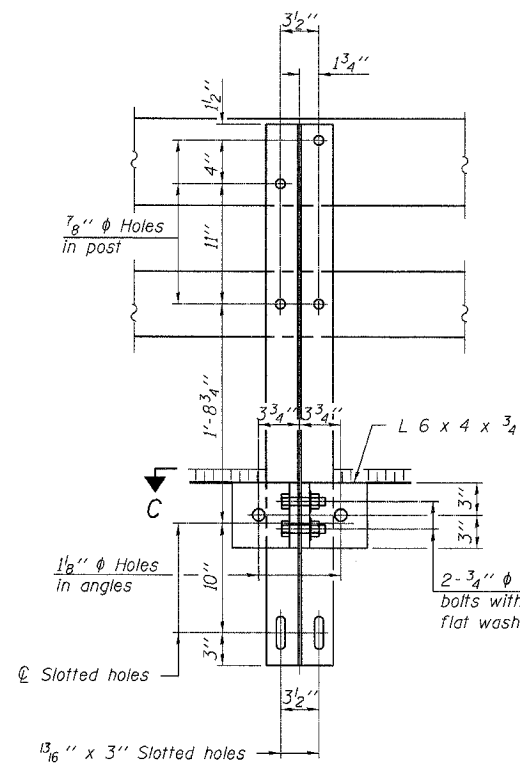
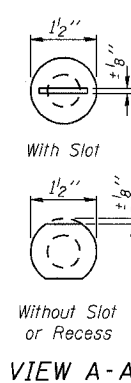
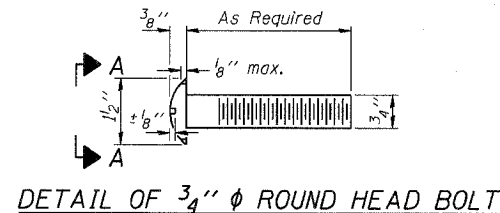
CUMMINS ENGINEERING CORPORATION

JOB #: 2187  
FILE: 2187SUPDET  
DATE: 2/7/08

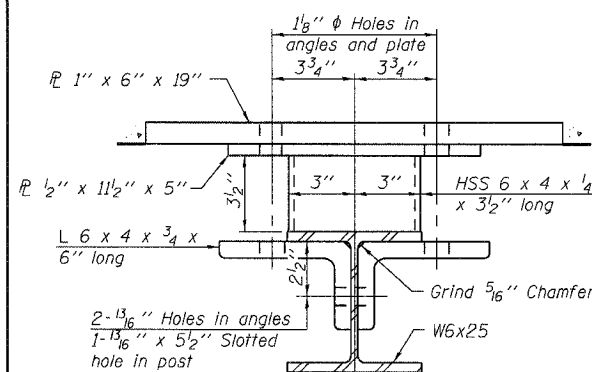


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 8	07-00092-01-BR	SANGAMON	24	16

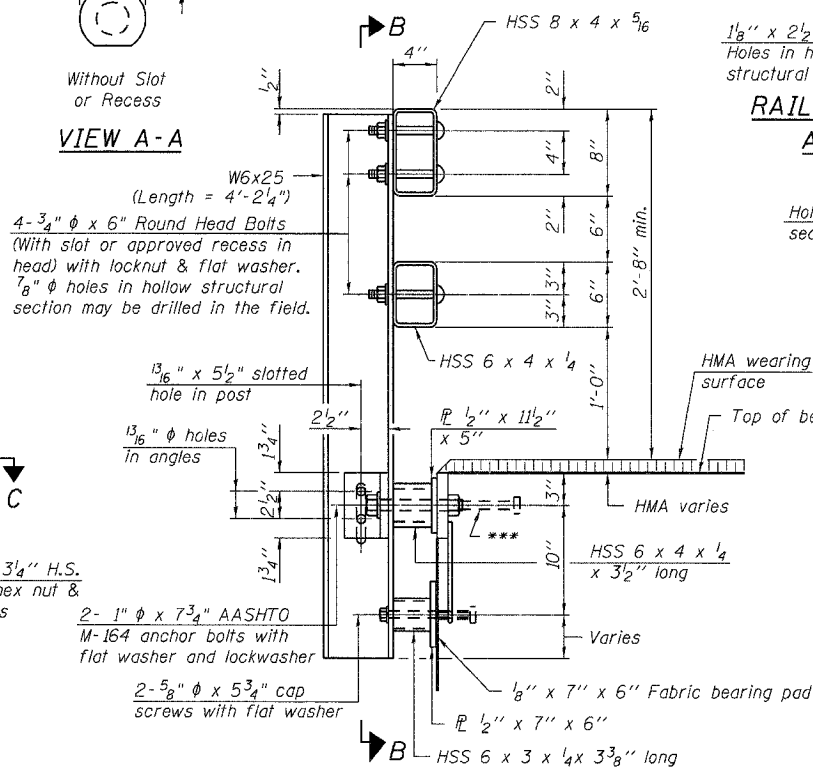
Sheet 5 of 8



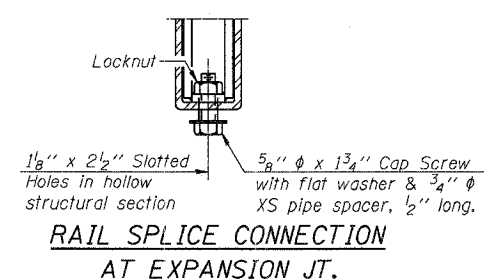
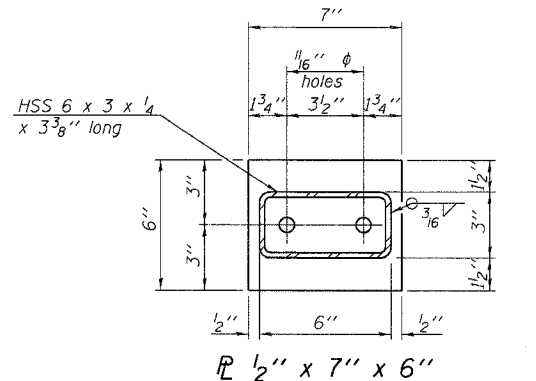
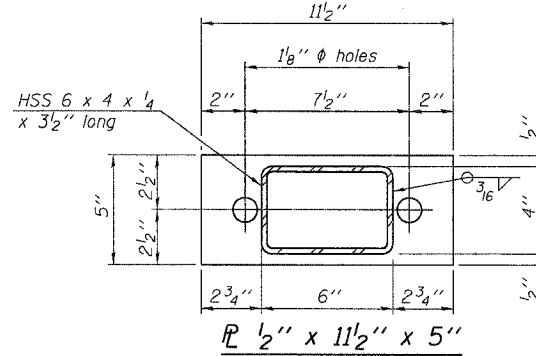
SECTION B-B



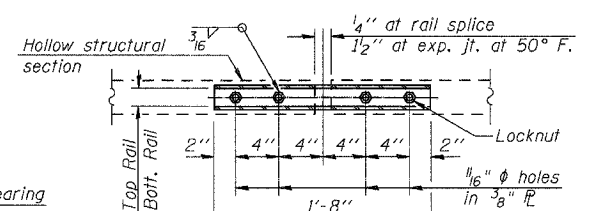
SECTION C-C



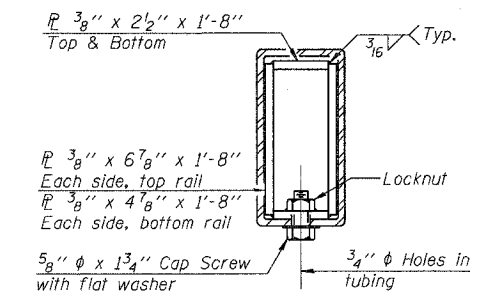
SECTION AT RAIL POST



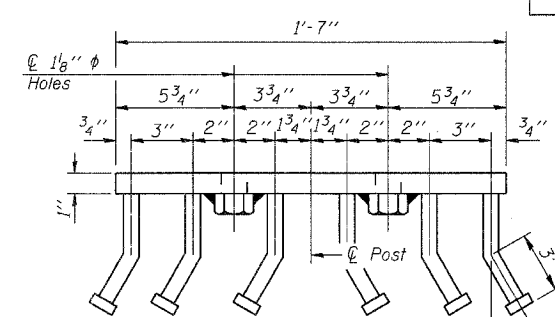
RAIL SPLICE CONNECTION AT EXPANSION JT.



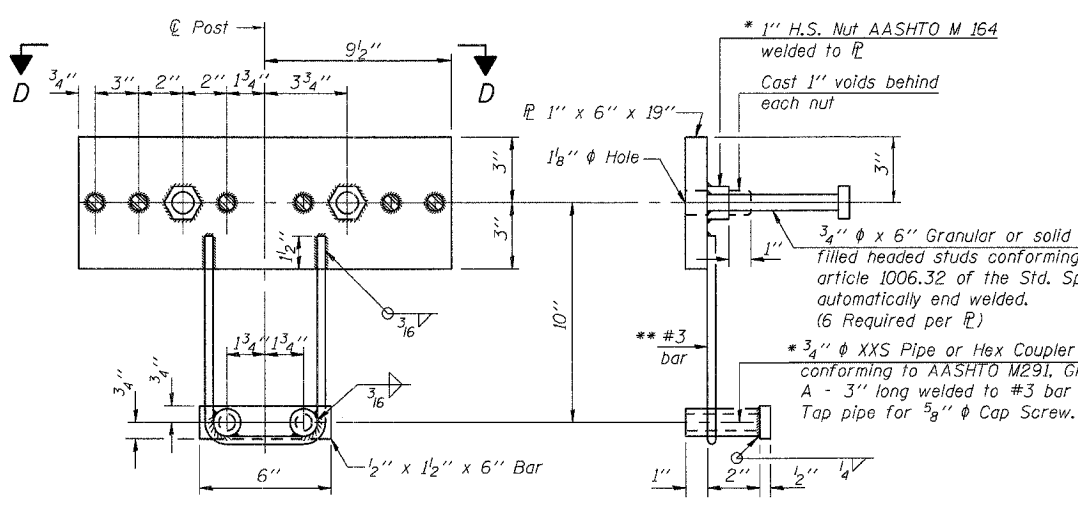
PLAN-BOTT. SPLICE P TYPICAL



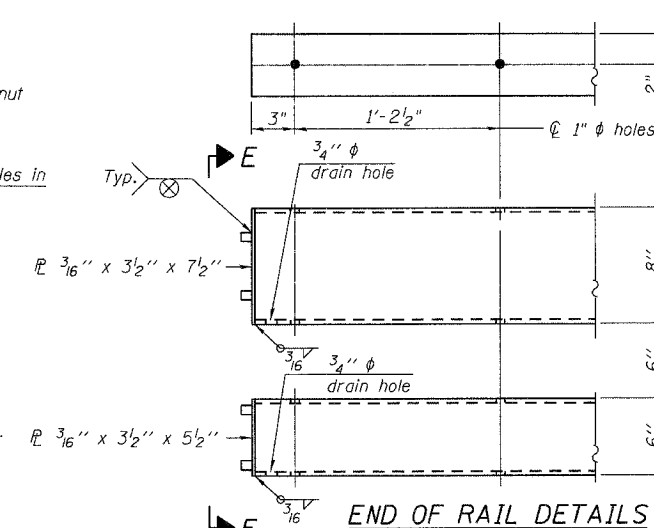
SECTION AT RAIL SPLICE



VIEW D-D



ANCHOR DEVICE



END OF RAIL DETAILS

Notes:  
 All field drilled holes shall be coated with an approved zinc rich paint before erection.  
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Bridge Rail, Type SM.  
 All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.  
 \*\*\* The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.  
 See Sheet 4 for Elevation View and Rail Post Spacing.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	263

**STEEL RAILING, TYPE SM WITH HOT-MIX ASPHALT WEARING SURFACE**  
 C.H. 8 OVER SPRING CREEK  
 SECTION 07-00092-01-BR  
 SANGAMON COUNTY  
 STA. 128+68

DESIGNED	T.S.H.
CHECKED	A.A.N.
DRAWN	A.J.H.
CHECKED	M.D.C.

R-34HMAWS 11-1-06 (6'-3" Maximum Post Spacing) (1/4" minimum to 3/8" maximum HMA thickness)

\* Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.  
 \*\* Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".

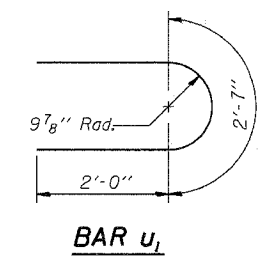
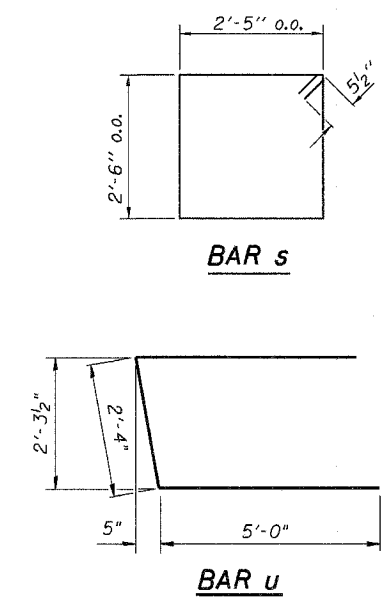
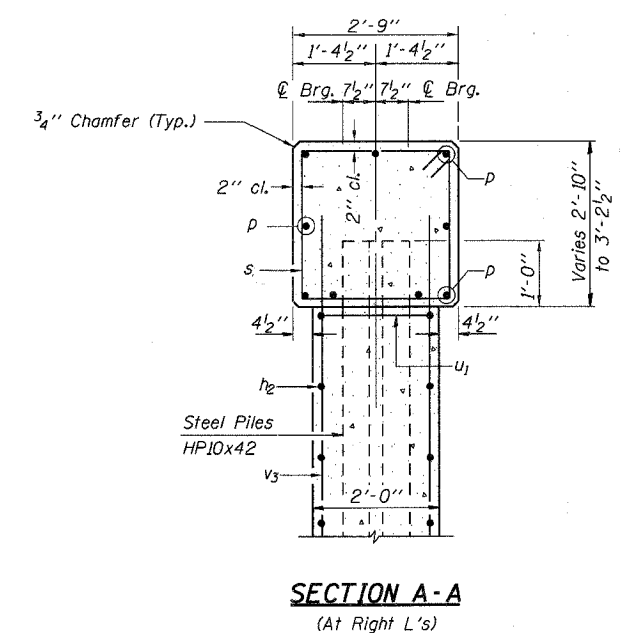
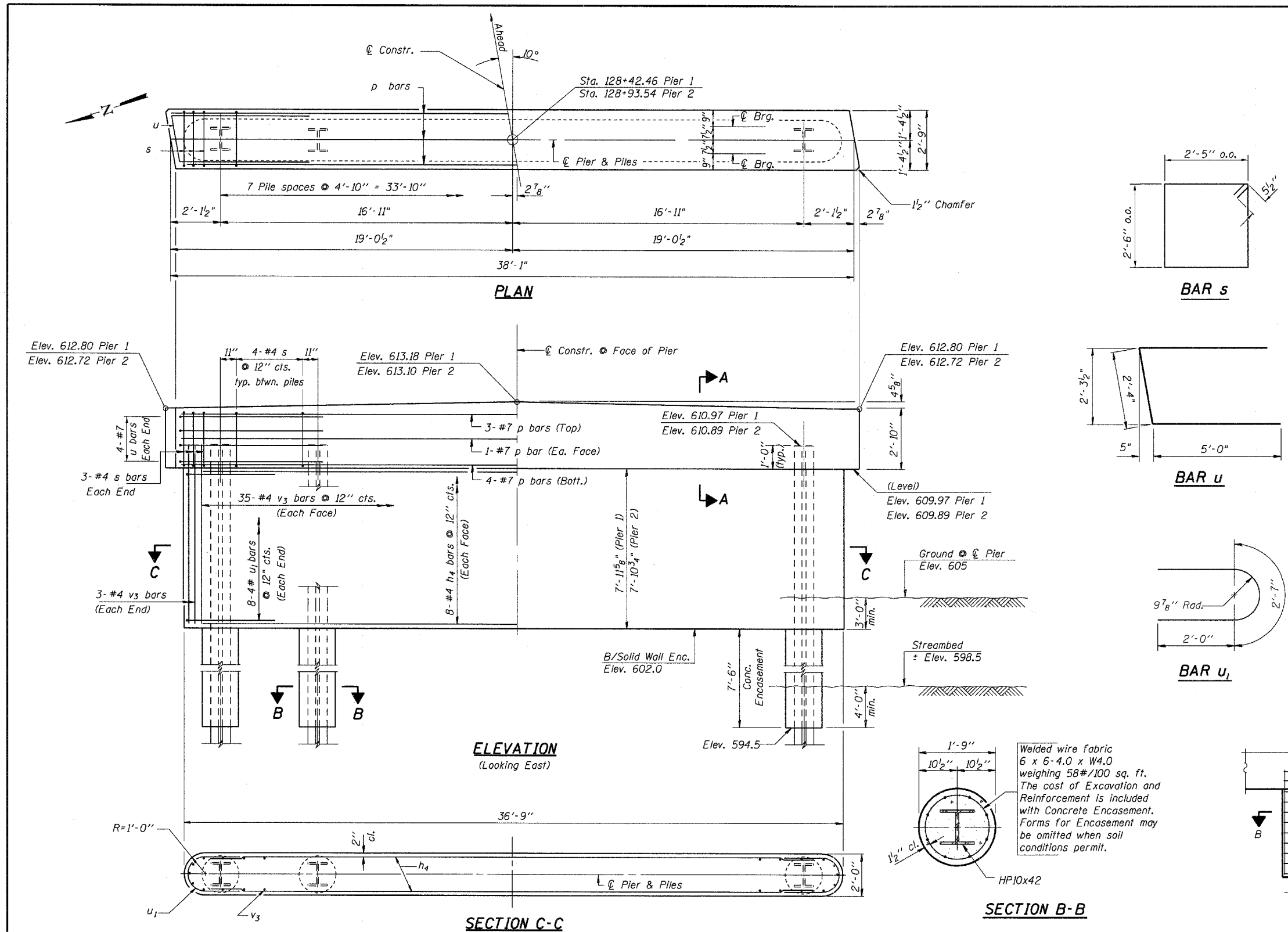
CUMMINS ENGINEERING CORPORATION JOB #: 2187  
 FILE: 2187RAILSM DATE: 2/7/08







ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 8	07-00092-01-BR	SANGAMON	24	19



**BILL OF MATERIAL - 2 PIERS**

BAR	NO.	SIZE	LENGTH	SHAPE	
h <sub>4</sub>	32	#4	34'-10"	—	
p	18	#7	37'-9"	—	
s	68	#4	10'-9"	□	
u	16	#7	12'-4"	—	
u <sub>1</sub>	32	#4	6'-7"	—	
v <sub>3</sub>	152	#4	9'-6"	—	
Concrete Structures				Cu. Yd.	65.6
Reinforcement Bars				Pound	4140
Steel Piles HPI0x42				Foot	469
Test Pile Steel HPI0x42				Each	2
Structure Excavation				Cu. Yd.	54
Underwater Structure Excavation Protection - Location 1 (Pier 1)				Each	1
Underwater Structure Excavation Protection - Location 2 (Pier 2)				Each	1
Concrete Encasement				Cu. Yd.	10.4

DESIGNED	T.S.H.
CHECKED	A.A.N.
DRAWN	A.J.H.
CHECKED	M.D.C.

**PILE DATA**  
 Type: Steel HPI0x42  
 Nominal Required Bearing: 335 kips (Refusal)  
 Allowable Resistance Available: 112 kips  
 No. Required: 16 piles\*  
 Estimated Length: 35 ft. • Pier 1  
 32 ft. • Pier 2

Note:  
 The Steel H-Piles shall be according to AASHTO M270 Grade 50.  
 \*Includes two steel test piles HPI0x42 to be driven in a permanent location, one at each pier as directed by the Engineer before ordering the remainder of piles. The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

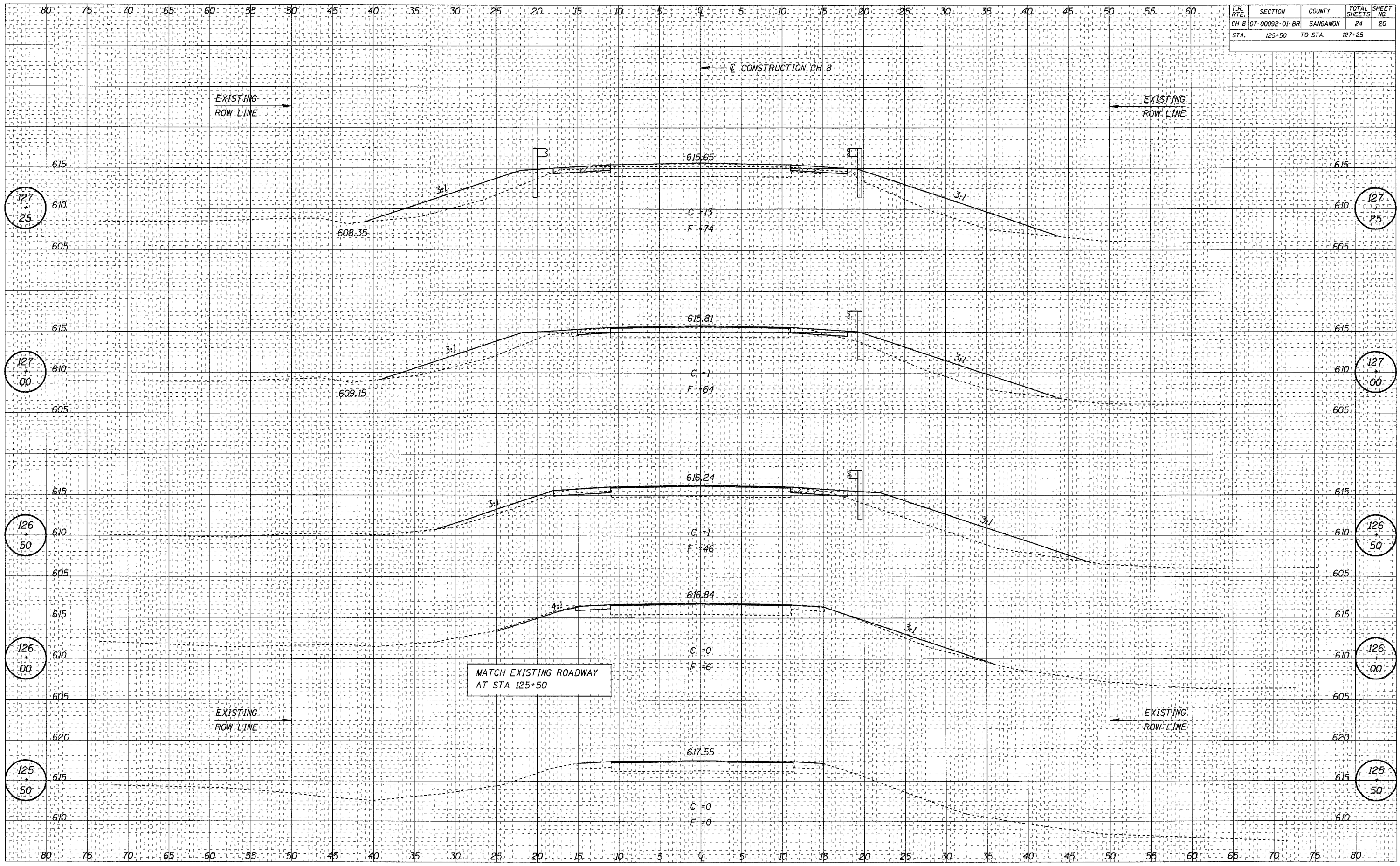
**PIERS**

C.H. 8 OVER SPRING CREEK  
 SECTION 07-00092-01-BR  
 SANGAMON COUNTY  
 STA. 128+68

CUMMINS ENGINEERING CORPORATION

JOB #:	2187
FILE #:	2187PIER
DATE:	2/7/08

F.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 8	07-00092-01-BR	SANGAMON	24	20
STA.	125+50	TO STA.	127+25	



DATE: \_\_\_\_\_

BY: \_\_\_\_\_

NO. \_\_\_\_\_

ORIGINAL SURVEY NOTE BOOK NO. \_\_\_\_\_

REVIEWED SURVEY NOTE BOOK NO. \_\_\_\_\_

PLOTTED TEMPLATE AREAS CHECKED \_\_\_\_\_

DATE: \_\_\_\_\_

BY: \_\_\_\_\_

NO. \_\_\_\_\_

ORIGINAL SURVEY NOTE BOOK NO. \_\_\_\_\_

REVIEWED SURVEY NOTE BOOK NO. \_\_\_\_\_

PLOTTED TEMPLATE AREAS CHECKED \_\_\_\_\_





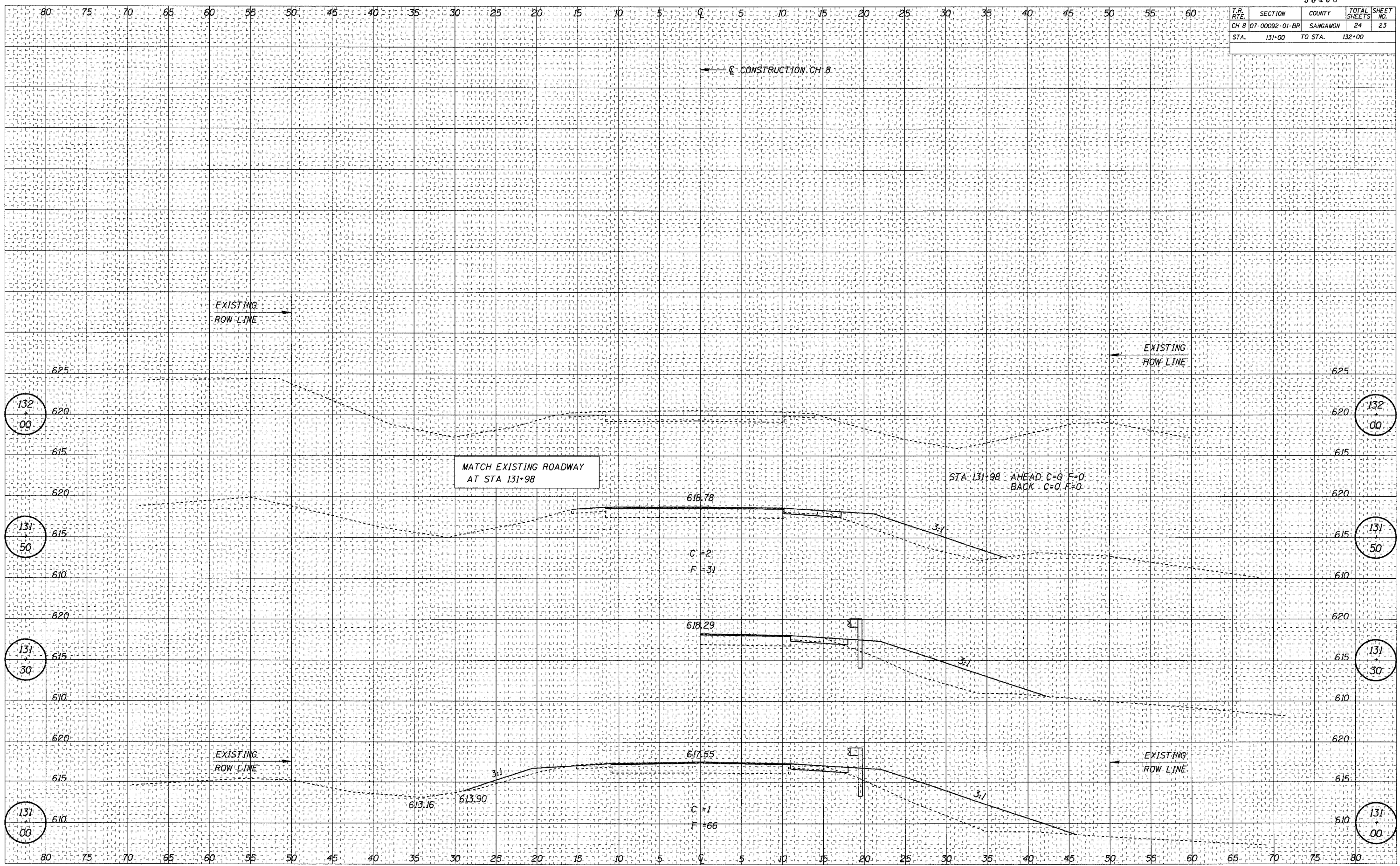




T.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 8	07-00092-01-BR	SANGAMON	24	23
STA.	131+00	TO STA.	132+00	

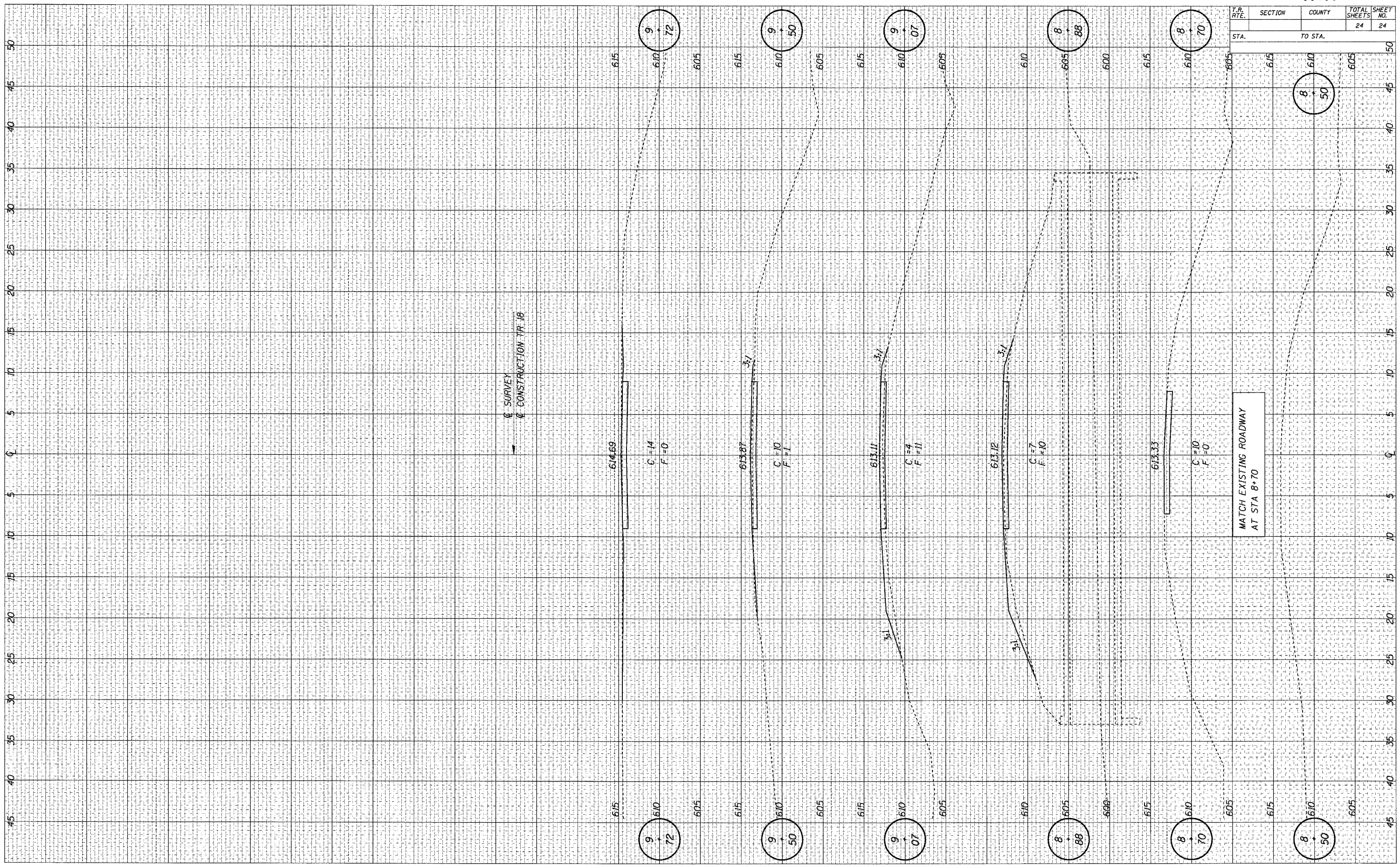
DATE	
BY	
NO.	
AREAS CHECKED	
TEMPLATE	
PLOTTED	
SURVEY	
FINAL	

DATE	
BY	
NO.	
AREAS CHECKED	
TEMPLATE	
PLOTTED	
SURVEY	
ORIGINAL	



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			24	24
STA.	TO STA.			